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The
CHEMIST AND DRUGGIST

Established 1859

28 Essex Street, Strand, London, W.C.2.

Registered as a Newspaper

No. 2799
VOL. CXIX.

SEPTEMBER 30, 1933

Annual Subscription (with
Diary) 20/- Single Copies 9d.

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THE... BUTYWAVE... WAVESETTER...

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BRINGS BIGGER SALES

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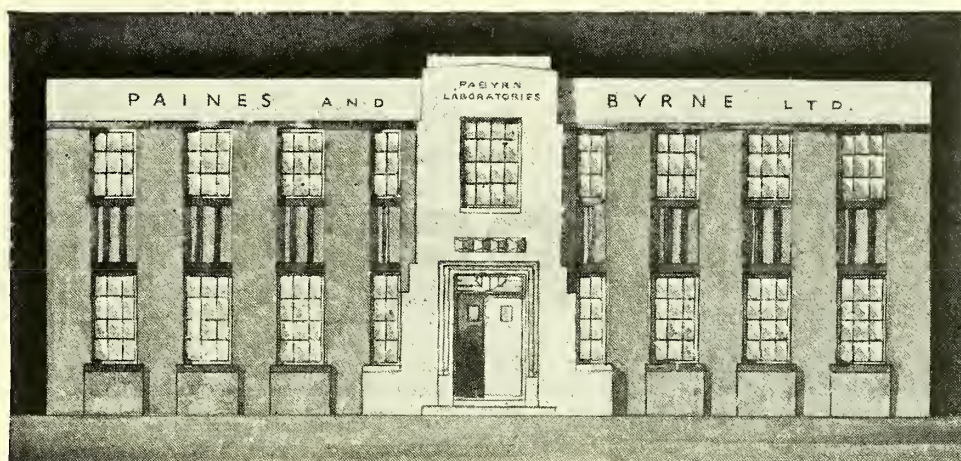
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have been the foundation of

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for all **GLANDULAR PRODUCTS**

"PABYRN" Brand

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Non-irritating and non-greasy. Will not injure even the most delicate fabrics.

There is nothing to break, spill, drip or stain.

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Terms:—One dozen on artistic sales-compelling card 20/- for order of three cards (minimum quantity). Sells readily, price 2/6

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*An Old-established favourite
brought up-to-date!*

SUPER TONIC TABLETS

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BRAND

New pack, new special display outer, new showcards, new Bonus Terms, new national advertising campaign, and therefore new life for an old favourite, with bigger and quicker sales than ever.

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BIGGER DISCOUNT

9 PRICES REDUCED—2 SIZES INCREASED

Operative from September 29th, 1933

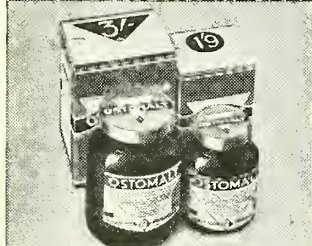
Three important decisions, involving three of the leading Glaxo Laboratories' products, are announced below.

The full confidence of the medical profession in these products, backed by a courageous trading policy, has enabled the Glaxo Laboratories to lower the cost of vitamin prophylaxis and therapy.

Also, it has enabled a trade discount to be increased.

The Glaxo Laboratories are now launching an intensive campaign among the medical profession to ensure that every practitioner shall be aware of the new low prices available to his patients at the pharmacies.

DISCOUNT INCREASED



PRICES LOWERED



SIZE INCREASED



SIZE INCREASED



PRICES LOWERED

OSTOMALT

Ostomalt prices have been reduced. At the same time, Ostomalt discount has been *increased*. By reason of the small dose necessary, Ostomalt—the 4-vitamin malt food—has always been more economical than any other. Now, with this price reduction it is brought within the reach of thousands more families. And *you* get bigger discount.

The new discount is 25%.

The new trade terms are:

The new reduced prices are:		$\frac{1}{2}$ lb. jars formerly 24/- per doz. net
		now 15/9 " " "
$\frac{1}{2}$ lb. jars reduced from 2/6 to 1/9		1 lb. " formerly 38/5 " " "
1 lb. " " " 4/- " 3/-		now 27/- " " "
7 lb. " " " 21/- " 17/-		7 lb. " formerly 16/10 each net
		now 12/9 " " "

OSTELIN LIQUID

The 2/6 phials are increased in size from 8 c.c. to $\frac{1}{2}$ ounce. The price, quality and concentration remain unchanged.

ADEXOLIN LIQUID

The 2/6 phials are increased in size from 8 c.c. to $\frac{1}{2}$ ounce. With the growing appreciation of vitamin therapy, fostered by the medical profession, this winter will show a very substantial profit for pharmacists who take full advantage of the larger-sized phial.

LARGER SIZES REDUCED IN PRICE

The larger sizes of Ostelin Liquid and Adexolin Liquid remain the same as regards contents, but the prices are reduced. These are dispensary sizes. Let your doctor customers know you stock them. Following are the new retail prices and trade terms.

	Old trade terms per doz. net.	New trade terms per doz. net.
2 oz. bottles reduced from 10/- to 7/6	90/-	67/6
4 oz. " " " 16/8 " 12/6	150/-	112/6
8 oz. " " " 27/9 " 22/6	250/-	202/6

Order now from your wholesaler.

STOCK NOW—

CO-OPERATE WITH YOUR DOCTOR
—AND BENEFIT

GLAXO LABORATORIES, 56 OSNABURGH STREET, LONDON, N.W.1

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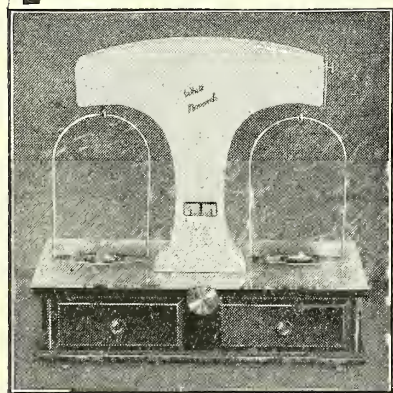
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Manufacturing Chemists, MANCHESTER

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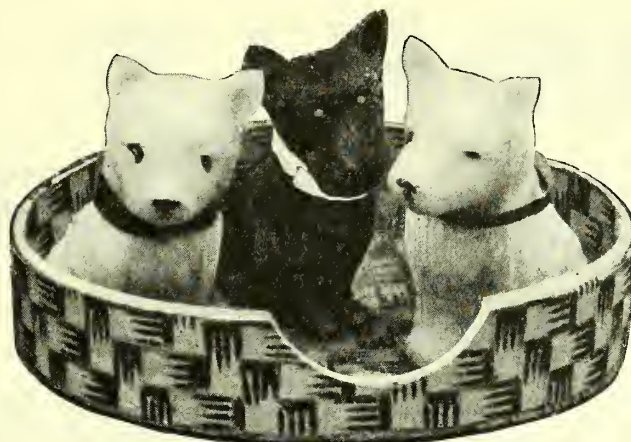
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SEE OUR SHOWROOMS AND OUR LABORATORIES,
TO LOOK OVER OUR EVERY DEPARTMENT, AND
THEN TO DECIDE FOR THEMSELVES WHETHER THEY
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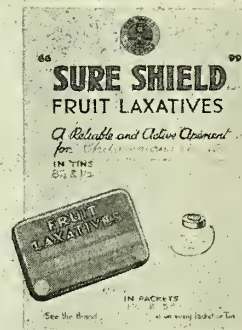
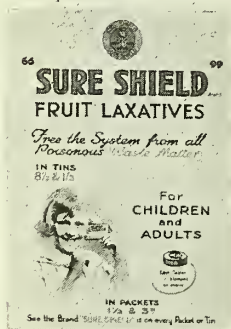
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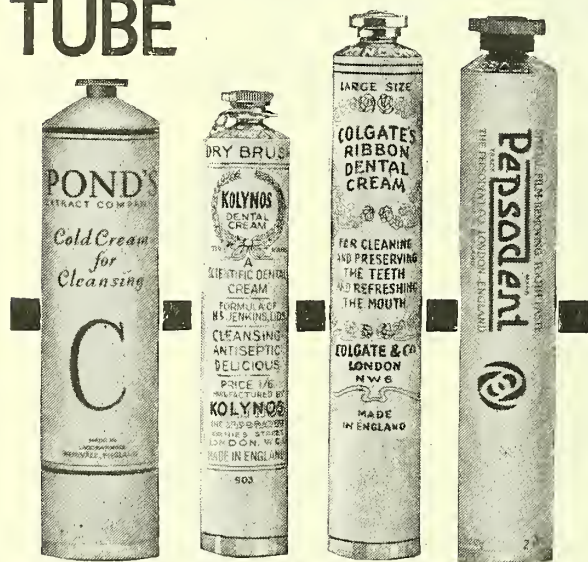
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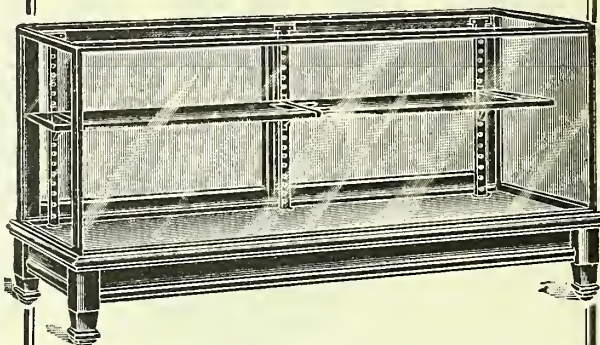
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A NEW SELLING LINE FOR THE WINTER

Our new "THREE MONKS" Ginger Wine Essence will not only have a wide appeal during the "party season" as a pleasant and stimulating drink, but can be strongly recommended for its medicinal value and economy.

One bottle, selling at 9d., makes over 8 pints of orange-flavoured ginger wine, and our name is a genuine guarantee of its purity.

SPECIAL FREE OFFER

Packed in attractive "dimple" bottles, and mounted on our compact, 4-colour display screen, which is supplied free, it invites immediate attention and enquiries.

Take advantage of the FREE introductory offer available for October only. The coupon below entitles you to 6 free bottles on a gross order.

PRICES: 6/3 per dozen for small lots.
6/- " " " 6 dozen lots.
5/9 " " " 12 " "

FIVE STRONG POINTS OF APPEAL

- ① GINGER WINE OF GUARANTEED PURITY
- ② AN ATTRACTIVE 4-COLOUR DISPLAY
- ③ SOLD IN INVITING "DIMPLE" BOTTLES
- ④ DISTINCTIVE LABELS
- ⑤ BAKELITE STOPPERS



FREE COUPON OFFER

Fill in this coupon, attach it to your order for one gross and you are entitled to six Free Bottles. Take advantage of this offer. Tear out the coupon now!

To: A. de St. DALMAS & CO., Ltd., JUNIOR ST., LEICESTER.

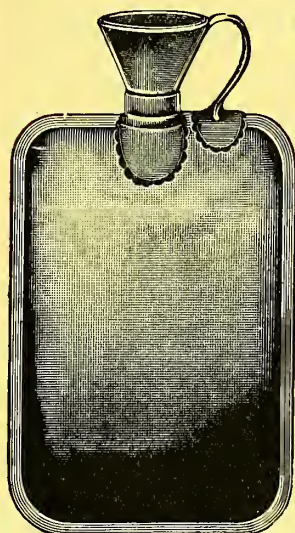
Name

Address.....

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HOT WATER BOTTLES

BRITISH MADE



INDIA RUBBER

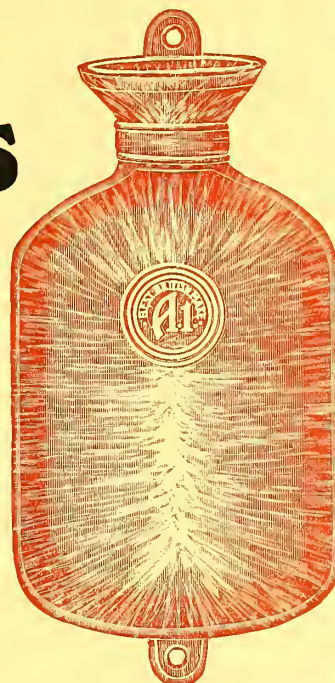
Non-Leaking Neck and Double Seal Stopper

	10" x 8"	12" x 8"	12" x 10"
Grey, per doz.	33/9	37/-	43/-
Red, „	36/3	39/6	46/-
3 doz. assorted, less 2½% discount			
6 doz. assorted, less 5% discount			

COVERS for above—

Velour, per doz.	9/6	10/6	12/6
Colours—			

Velour :—Grey, Lemon, Green, Sky Blue, Saxe Blue, Pink, Scarlet.



The A.1. MOULDED RUBBER

A guaranteed second quality bottle for competitive trade.

Size 11½" x 7½"

Colours :—Cherry, Orange, Blue Marble, Orange Marble.

Per	19/3	doz.
3 doz.	@	18/-
6 doz.	@	17/3
12 doz.	@	16/9

MOLLETON COVERS

10" x 8" or 12" x 8", per doz. 4/6.
1 gross @ 48/-

Colours :—Blue, Pink, Green, Beige



MOULDED RUBBER

Best Quality. Colours :—Red, Blue, Green, Jazz.

12" x 8", per doz.	24/-
10" x 7", per doz.	22/-
3 doz. less 2½%	6 doz. less 5%

COVERS for above.	Ripple, per doz.	10" x 7" 5/9	12" x 8" 6/3
	Velour, per doz.	9/6	10/-

ALUMINIUM

Round, Composition Stopper, Wide Neck, per doz. 10/6

Velour Covers, Assorted Colours, per doz. 9/3



BUTLER & CRISPE

J. H. CRISPE

L. H. CRISPE

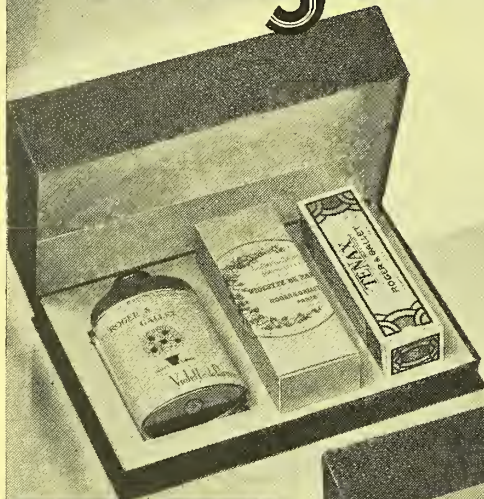
R. P. GOWER

Cables and Marconigrams :
"ALLUWANT, LONDON." CLERKENWELL 2661 (Private Branch Exchange).
Telegraphic Address :
"ALLUWANT, SMITH, LONDON."

English and Foreign Proprietary Medicines, Perfumery, Toilet Goods, Druggists' Sundries

80-84 Clerkenwell Rd., London, E.C.1

Roger & Gallet's



No. 7. GENTS' COFFRET

1 Large Tube Shaving Cream
1 Tube Tenax Hair Fixer
1 Talc.
Perfumes: { Violette de Parme
Carnation

Retail
5/9



No. 5. COFFRET COLOGNE

1 Box Face Powder
1 Perfume
1 Talc

Retail
9/9



No. 8. GENTS' COFFRET

1 Shaving Milk
1 Talc
1 Solid Brilliantine
Perfumes: { Violette de Parme
Carnation

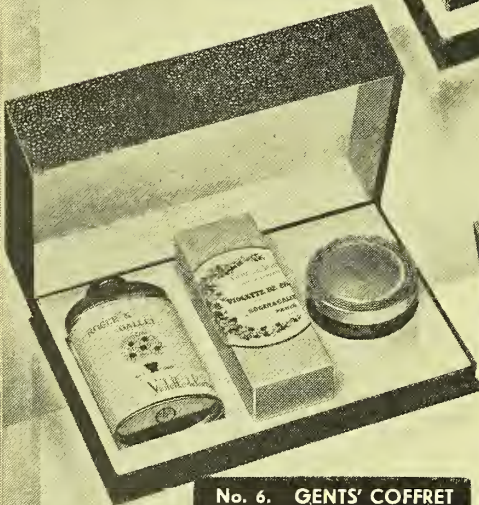
Retail
6/9



No. 1B. COFFRET

1 Box Face Powder
1 Handbag Perfume
Perfumes: { Le Jade
Pavots d'Argent
Fau Follet

Retail
6/6



No. 6. GENTS' COFFRET

1 Large Tube Shaving Cream
1 Solid Brilliantine in Glass Jar
1 Talc.
Perfumes: { Violette de Parme
Carnation

Retail
6/-



No. 3B. COFFRET

1 Box Face Powder
1 Tube Day Cream
1 Tube Night Cream
Perfumes: { Le Jade
Pavots d'Argent
Fau-Follet
Cologne

Retail
4/6

Quality Coffrets

Make a Perfect Gift

Your professional reputation is built on personal integrity and your discrimination for quality. By selling Roger & Gallet you are selling quality, adding to your prestige and building up a clientele that will always be satisfied



No. 4B COFFRET
 Retail
 1 Box Face Powder
 1 Tin Talc
5/-
 Perfumes { Le Jade
 Pavots d'Argent
 Feu Follet
 Cologne



No. 2F. COFFRET
 Retail
 1 Box Face Powder
 1 Handbag Perfume
 1 Tube Day Cream
 1 Tube Night Cream
6/-
 Perfumes { Violette de Parme
 Carnation
 Sweet Pea



No. 1F. COFFRET
 Retail
 1 Box Face Powder
 1 Handbag Perfume
4/6
 Perfumes { Violette de Parme
 Carnation
 Sweet Pea



No. 2B. COFFRET
 Retail
 1 Box Face Powder
 1 Handbag Perfume
 1 Tube Day Cream
 1 Tube Night Cream
8/-
 Perfumes { Le Jade
 Pavots d'Argent
 Feu Follet

Roger & Gallet guarantee that all their Perfumes, Eaux de Cologne, Toilet Waters, Hair Lotions, are prepared with the best, purest, potable, dutiable S.V.R. spirit obtainable, and not with methylated nor any other industrial spirits known as "DUTY FREE"

ROGER & GALLET (LONDON) LTD.

1 LECHMERE ROAD, LONDON, N.W.2

LONDON and PARIS



PARKINSONS'

ALL - THE - YEAR - ROUND LINES

"VITAGRAINS." A pleasant, cooling, health restoring, blood-purifying saline. Retail at 10½d. Attractively packed in richly coloured display carton containing ½ dozen bottles. A line which makes a striking window or counter display and one you can recommend with every confidence.

PILLS (SUGAR COATED). PARKINSONS' PILLS are known everywhere. Blood and Stomach, Head and Stomach, Back and Kidney, Laxative, Liver, etc. Retail at 1d., 3d., 6d. and 1/-. Excellent profits.

EZ POWDERS. For headache, neuralgia, influenza, rheumatism, etc. Retail 1/3 and 3/- per box. 100% profit.

KILKOF. (Tackles that tickle) for coughs, colds, bronchitis, catarrh, sore throat, etc. Retail at 1/3 and 3/-.

You can build up a sound business with these nationally advertised lines.



PARKINSONS

MANUFACTURING CHEMISTS

BURNLEY





BOTTLES

cost
so little
and yet mean so
much in the appearance
of your finished product


LAX & SHAW

is a household name in the bottle-making industry. Decades of experience, three up-to-date factories—skilled craftsmen—all these mean cleanly moulded sparkling containers which you can be proud of using—and at distinctly interesting prices

**Enquiries are invited for any size, shape, or
colour, either hand-made or machine-made
IT PAYS TO USE GOOD BRITISH BOTTLES!**

Registered Office
ALBERT GLASS WORKS, HUNSLET, LEEDS
Phone: Leeds, 21568 (2 lines)
Wires: "Feeders, Phone, Leeds"

**WHOLESALE & EXPORT
ONLY**





POTTER'S CATARRH PASTILLES



P. A. T. A. 1s. 3d.

PER DOZ. 11s. 0d.

BOXES $\frac{1}{2}$ DOZ.

*Advertising Campaign commences
September and will be continued
throughout the year*

LOOK TO YOUR STOCKS

POTTER & CLARKE Ltd.

60-64 ARTILLERY LANE, LONDON, E.1

Manchester: 77 Dantzic Street.

Phone:
Bishopsgate
4761
(5 lines)

Grams:
"Horsehound"
Phone
London"
(2 words)

HAY'S

For Christmas Lines!

What are you offering your customers this Christmas? Our latest Price List containing large ranges of delicate perfumes and other popular Hay Toilet productions will greatly assist you in preparing your stocks. All are quick selling lines of the highest quality—that bring extra profit to you—stock Hay's

TOILET PRODUCTS

This illustration shows our special cheap line No. 3 perfume packed in 1, 2 and 4 oz. bottles; prices: 9/6d., 14/6d. and 18/6d. per dozen.

(Attractively Labelled. Stylishly Boxed.)

OUR NEW LINE

Packed LIQUID SOAP is proving tremendously popular—have you seen a bottle yet? If not, write for sample and prices NOW.

DEPT. C.L.I.

WILLIAM HAY LIMITED,
Manufacturing Chemists,
HULL



N^o. 170 SHORT HEAD TOOTHBRUSH WITH THE HARD CENTRE



Price 7/- per dozen
(6/8 plus 5%).

FROM ALL WHOLESALERS

Made in England and Guaranteed by

Addis
ESTD. 1780

REGD

BRUSH WORKS, HERTFORD

THE MOTORIST'S SOAP



Those who know the inconvenience of dirty hands, after attending to the car, will appreciate this really wonderful invention.

Its copious lather, penetrating every wrinkle, removes dirt and grease in a flash, leaving the hands smooth, soft, and quite clean.

Invaluable to Motorists, Engineers, and all those whose work brings their hands into contact with oil and grease.

Packed in three tablet boxes, price 9/- per dozen boxes. Retail 1/6 per box.

MADE BY

R. F. WHITE & CO. LTD.

Toilet Soap Experts

Mitcham

::


Surrey

600,000
Daily Mail Daily Express News Chronicle Daily Herald
PEOPLE
 are reading about the wonderful value
 of the **“LAUREL”**
 New Improved **LAUREL**
 DUMB-BELL Regd.
Razors & Blades
Are you ready to supply?

Retails
1½d.
 each.

PACKET OF
4 for 6d.
 Order your Stock
 to-day.

COMPLETE
 OUTFIT
 FOR
6d.



Geo. H. Lawrence Ltd. Laurel Wks.,
 Nursery St., Sheffield

Safety Razor Blades to Private Brands

We are specialists in the production
 of Safety Razor Blades to Private
 Brands.

Home or Export.

Prices competitive.

Special wrappers, cartons and labels
 designed to customers' ideas.

In fact your Private Brand complete
 and ready for sale.

Large output available from most
 modern Plant.

Consult:

Dominion Steel Corp. Ltd.
 "Fleet" Works, Queen's Road,
 Sheffield, England

The Public are Calling
 for

PETAL DUST

*"Wherein the subtle savour of the Flowers
 sublimely dwells."*

THE GREAT FLORAL AIR PURIFIER

A Trial will convince you that—

PETAL DUST, when once shown, creates its
 own demand, and is therefore a valuable adjunct
 to every "go-ahead" store.

PETAL DUST, when displayed prominently
 upon your counter, will attract prudent customers
 by the fragrance of its unique odour, which to-day
 is of such universal admiration.

Retails in packets at 4d. and 8d. each.

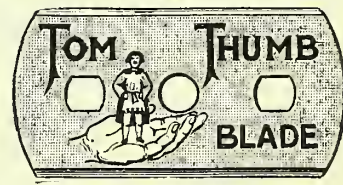
Attractive Advertising matter free on request.

Obtainable through all the usual Wholesale Houses or
 from Sole Producers:—

The Rosmarine Manufacturing Co.
 LONDON, S.E.1.

HANG IT UP AND LET
 IT SELL ITSELF

1d.
 Each
 Retail

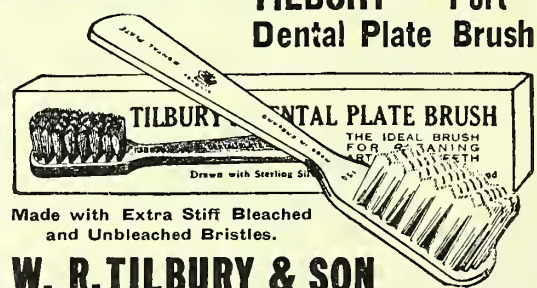


Supplied on cards or
 boxed. Show cards
 with every order.

British Made

Established 1880.

TILBURY "Fort" Dental Plate Brush



Made with Extra Stiff Bleached
 and Unbleached Bristles.

W. R. TILBURY & SON
 47 FRAMPTON PARK ROAD, HACKNEY,
 LONDON - - - ENGLAND



Announcing a
NATION WIDE
ADVERTISING CAMPAIGN
for
NEW ERA
Eau de Cologne

INEXPENSIVE *Eau de Cologne* of FARINA GEGENÜBER QUALITY



NEW ERA is the new, inexpensive Eau de Cologne, bearing the Farina Red Crest. It is a genuinely high quality Eau de Cologne sold at prices within the reach of all.

In a few weeks' time a national advertising scheme will be launched. In all the big daily papers and leading provincial evening papers simple direct announcements will tell millions about NEW ERA Eau de Cologne. Later, on December 14, a full front page Daily Mail will be taken to announce special Christmas Coffrets.

The demand will be enormous. Be sure to get stocks early. Flat Bottles 6d., 1/-, 1/9, 2/6, 3/-, 4/6, 5/6. Round Bottles 1/9, 3/-, 5/6. Coffrets 1/-, 1/6, 2/-, 2/6.

Special Assorted Christmas Parcels for the Trade £2.3.0, £3.0.0., £5.0.0. Trade Terms are exceptionally generous. Find out more about New Era at once!

BLACKALLER & PLEASANCE LIMITED

Associated with Savory & Moore Ltd.

Standard Works, Lawrence Road, Tottenham, London, N.15

Established 1900

EUCRYL DENTIFRICES

EUCRYL TOOTH POWDER
EUCRYL TOOTH PASTE
EUCRYL DENTURE POWDER

Bought on Display Terms Yield:

PROFIT ON
SELLING PRICE

43%

PROFIT ON
BUYING PRICE

75%

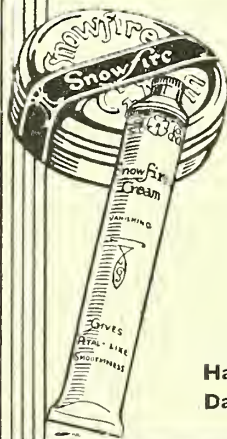


**BRITISH OWNED
BRITISH MADE**

Continuously Advertised
Quick Sales Large Profits

EUCRYL Limited Manufacturing Chemists - SOUTHAMPTON

★ The 'STAR' of popular
priced face creams



Snowfire Cream—always in demand from regular customers, always making new friends—a most profitable line to handle. Stock it—show it—recommend it—quick sales and a large, rapid turnover will reward you.

Handbag Containers - 3d.
Dainty Tubes - 6d. Retail

SNOWFIRE
Vanishing CREAM

Manufactured by
F. W. HAMPSHIRE & CO. LTD., Sunnydale Works, Derby.

Are You Ready
FOR
H. W. BOTTLES

IF SO

ASK OUR REPRESENTATIVE TO
SHOW YOU THE CHEAPEST
HIGH QUALITY BOTTLES

WE HAVEN'T THE LOWEST
PRICED ONE—OURS ARE

BRITISH

"VERAX" and "WENBERY"
PATTERNS

"NEWBERYS"

Francis Newbery & Sons Ltd.

CHARTERHOUSE SQUARE,

CARDIFF

LONDON, E.C. 1

LIVERPOOL

Tokalon

CREATIONS

Fashionable GIFT SETS FOR XMAS SEASON

These have the unique characteristic of enabling the public to purchase the finest and most Fashionable Toilet Articles at extremely popular prices.

Only a selection is illustrated but a booklet is available, showing the full range in actual colours.

Write for a copy to-day and ensure Big Xmas Sales by ordering these reasonably priced gifts.

TOKALON LTD.,
Chase Rd., London, N.W.10

SET NO. 6A

Retail 6/-
Trade Price 54/-
per doz. sets.

SET NO. 2A

Retail 4/-
Trade Price 36/-
per doz. sets.

SET NO. 4A

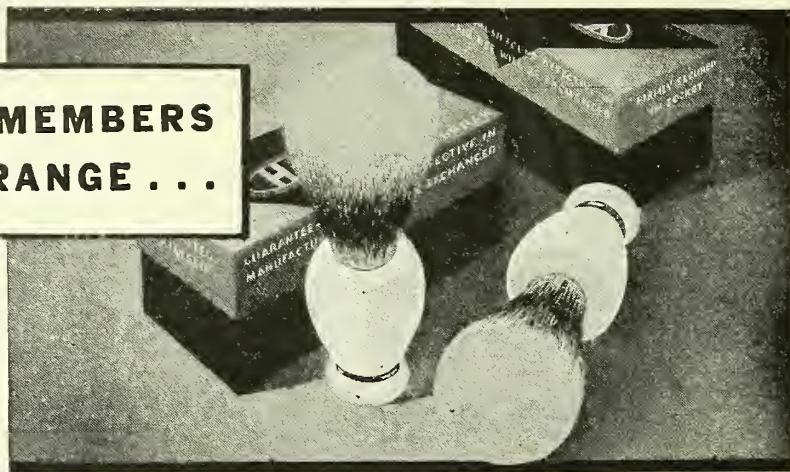
Retail 4/6
Trade Price 40/6
per doz. sets.

SET NO. 7

Retail 3/-
Trade Price 27/-
per doz. sets.



WELCOME NEW MEMBERS OF THE HALEX RANGE...



PURE BADGER TO SELL AT 15/-
Red Ring

PURE STAINED HOG TO SELL AT 5/-
Blue Ring

Badger or bristles to suit all chins, prices to suit all pockets! Handy handles, no crevices to collect soap. *Of course* the bristles won't come out—these are Halex brushes! The public is friendly to the name Halex and how this does help to sell a brush! The profits are attractive; so are the boxes. A nice line this—one you should do well with.

BRITISH XYLONITE CO LTD HALE END LONDON E4

WHY NOT ENQUIRE ABOUT OUR NEW

IDEAL SHOPFITTINGS?

PHILIP JOSEPHS & SONS, LTD.

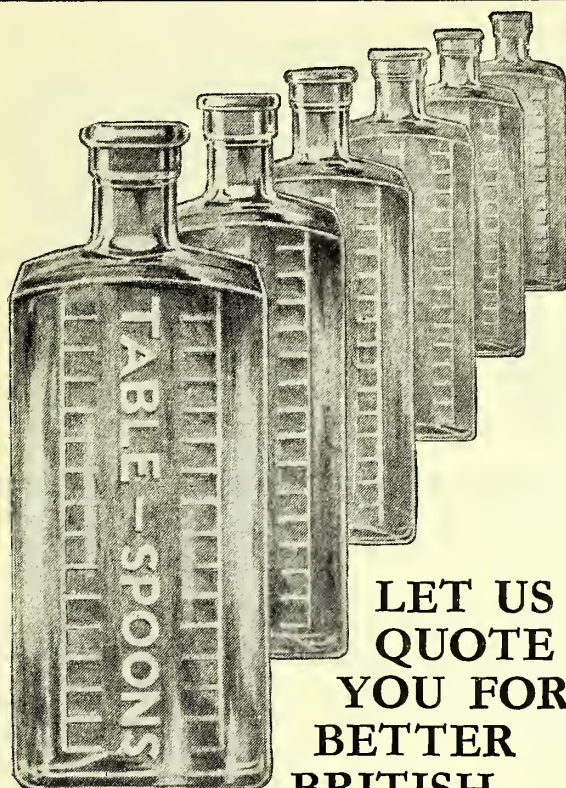
PHARMACEUTICAL SHOPFITTERS

90 & 92 St. John Street, Clerkenwell, LONDON, E.C.1

Telephone: CLERKENWELL 2191

Telegrams: JOSIPHIAH SMITH, LONDON

"PHARMACY FITTERS FOR OVER A CENTURY"



LET US
QUOTE
YOU FOR
BETTER
BRITISH
BOTTLES

For eighty years or so we have been making bottles of every description, so we can claim to know something of Drug Trade Requirements.

Hand or machine made bottles of every type—sturdy and accurate and well finished—we can supply whatever you need.

Bottles of first class quality at highly competitive prices. It will pay you to ask us to quote for your next order.

ESTABLISHED 1851

**FREDERICK
HAMPSON Ltd.**
PERSEVERANCE GLASS WORKS
SALFORD 5

Telephone :
Trafford Park 0814/5.

Telegrams :
"Attention" Salford.

BEATSON, CLARK & CO.
LTD.

Chemical and Medical Glass Manufacturers
ROTHERHAM, YORKS.

Telegrams - - - "BEATSON, ROTHERHAM."



**SHOP ROUNDS. OIL ROUNDS.
POISONS. SYRUPS & ETHERS**

WITH AND WITHOUT RECESS LABELS.

ESTABLISHED 1751.

PRECIPITATED CHALK

LIGHTEST—MEDIUM—DENSE.
And All Other Grades To Suit Every Purpose.
Prepared Chalk B.P. and Powdered Talc.

'Phone: Mansion House 7300. Tel. Add.: "Levermore, Phone, London."
A. LEVERMORE & CO. LTD. ABC Codes,
110 CANNON STREET, LONDON, E.C.4. 6th Edition.

DYES!

ENSURE SATISFACTION!
Buy from
WHITAKER & Co.
(KENDAL) LTD.
The Chemists' Dye Specialists
Kendal, Eng.



Always recommend—
LUTON Straw Hat Dyes
AURORAL Gold Water Dyes
WINNER Home Dyes
WINNER Stocking Dyes
SPECIAL PRICES AND TERMS FOR EXPORT

AYRTON-GRAHAM LTD.

Designers and actual manufacturers of

FITTINGS

For the MODERN PHARMACY.

Shop Fronts, Show Cases, Exhibition Cases, Counter Cases, Counters, Wall Cases, Glass Signs, etc., etc.

PHARMACIES MODERNISED.
ALL GOODS OF BEST QUALITY
AND FINISH AT LOWEST RATES.
Competent Fitters sent to all parts.

24 BENSON ST., LIVERPOOL

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TRAGACANTH
and **ARABIC**

As Imported or Finely Powdered

WHITE SHELLAC

FREDK. FINK & CO., 10 & 11 Mincing Lane, London, E.C.3
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Increase Your Developing and Printing Service.

Make use of our really useful series of D. & P. books, also our Printed Aids to Selling.
Interesting range of samples post free.

BURALL Bros. The Patent Label Factory,
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ALL TOILET PREPARATIONS

PROPRIETORS:

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5 GREAT QUEEN ST., LONDON, W.C.2

TELEPHONE: HOLBORN 6410



SHADEINE

FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 8d. per doz. 0/-
1/4 size, per doz. 12/-
2/6 size, per doz. 24/-
3/9 size, per doz. 36/-

The SHADEINE Co., 58, Westbourne Grove, London, W.2

Chemists' Fittings

When you want Shop Fittings it will pay you to send to

GEORGE COOK

The Chemists' Working Shopfitter,

27 Macclesfield Street, City Road, LONDON, E.C.1

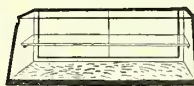
40 years' experience Phone: Clerkenwell 5371 Rough Sketches free

**WHOLESALEERS
PLEASE NOTE**

Attractive sole agency terms can be secured in many districts for Hobson's Black Beer (non-intoxicating), "Danzovin" Tonic Wine, etc. These lines are consistently advertised to the public. There is a good demand. Own name literature supplied.

Write us for agency terms.

JOSEPH HOBSON & SON, Ltd., Regent St., LEEDS
'Phone: LEEDS 25270 Telegrams: "SPRUCE," Leeds



THE KWIK-SALE SHOWCASE

Suitable for all Businesses.

D. MATTHEWS & SON,
Shop Fitters and Showcase Manufacturers.
14/16 Manchester St. LIVERPOOL.

Plate glass sloping front. Frameless Mirror sliding doors at back. Polished edge plate glass shell inside. Size 3 feet long. 14 in. back to front at bottom. 9 in. back to front at top. 12 in. high. **£5-10-0**

STEPHENSON'S INCOMPATIBILITY IN PRESCRIPTIONS

is used by Teachers and Students in the leading PHARMACY SCHOOLS throughout Great Britain.

Cloth, Gilt, 4s. 6d., by post, 4s. 9d.

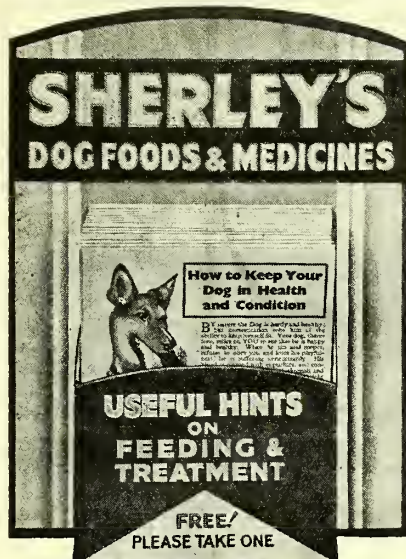
Through any Medical Bookseller, or direct from:—

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FREE and POST FREE NEW CO-RE-GA CARD

Display it and increase your sales

THOS. CHRISTY & Co., Old Swan Lane, London, E.O.4



SHERLEY'S SPECIAL OFFER

FREE LEAFLETS & DISPLAY STAND

For Counter Distribution

WE have prepared a very attractive 8-page leaflet of interest to Dog Owners, and offer a quantity of these to the Trade without charge, in a neat attractive Counter Display Stand, for Free Distribution. The Leaflet deals briefly with all Sherley Products and once they are in the hands of Dog Owners in your district, will prove effective Salesmen and bring more custom to you. This is another example of Sherley's enterprise of which it will be well worth your while to take advantage.

Just post the Coupon below TO-DAY. Sherley's Dog Foods and Medicines enjoy a regular and extensive sale and it behoves you to keep ample stocks on hand to meet this demand in your district.

FREE-SIX 2d. DOG BOOKS ON £1 ORDERS

Sherley's Dog Book introduces a permanent salesman into the homes of your customers. It contains 136 pages and sells readily at 2d. This bonus is given on every mixed order value £1 and over.

2½% DISCOUNT ON £2 PARCELS

On orders of £2 or over, made up of lines retailing at 6/- or less, we allow a special discount of 2½%.

5% EXTRA DISCOUNT FOR WINDOW DISPLAY

All purchasers of Parcels value £2 or over (made up in accordance with our terms) are entitled to a further 5% for a fortnight's window display.

POST THIS COUPON TO-DAY

In unsealed envelope (½d. stamp).

To A. F. SHERLEY & CO., LTD.,
18, Marshalsea Road,
London, S.E.1.

Please send me a supply of Free Leaflets and Counter Display Stand.

Name

Address

C.D.

HARVEY'S

Watts' Embrocation, or Curb Bottle.
Aconite Powders.
Worm & Condition Powders.
Watts' Red Lotion.
Hair-Restoring Ointment.
Edos, or Tasteless Purging Powder.

HARVEY'S

Great

*Protected Prices
(P.A.T.A.)*

Remedies for the Horse



HARVEY'S

Koppos Powder.
Parasiticide.
Thrush Specific.
Hoof Ointment.
Skin Specific for Dogs.

Of all the leading Druggists' Sundries Houses
HARVEY & COMPANY, Ltd., Dublin

Continuous and Steadily Advertised Goods FOR DESTROYING RATS AND MICE

DANYSZ VIRUS

Retail Price (Protected)	Net Wholesale Price
Virus for Rats and Mice, single tube, 2/-	15/- per doz.
3 tubes, 5/-	
Virus for Mice only .. single tube, 1/6	9/- "
3 tubes, 3/-	
Date-expired tubes returned to us postage paid will be exchanged free of charge.	

Danysz Virus in Liquid Form

Retail Price	Wholesale Price
Quart Bottles 6/- each	4/6 each
Pint " 4/6 "	3/9 "

HALLER'S EXTRACT OF SQUILL and DANZO RAT KILLER

Discount off Retail Prices	25% Monthly Account, or 33½% cash with order.
Retail	Monthly A/c
½ gall. tins .. 10/-	7/6
1 " " " 18/-	13/6
5 " " " 80/-	60/-
	Cash with Order
	6/8
	12/-
	53/4

DANZO BEETLE POWDER

For destroying Blackbeetles, Cockroaches, Crickets, &c.

Retail Prices (Protected)	Wholesale Prices per doz.
In tins 3d.	In boxes of 2 doz. 2/1
6d.	1 " 3/8
1/-	1 " 7/3
2/6	1 " 18/-

Danzo Beetle Powder will not deteriorate by keeping.

CARRIAGE PAID ON ALL ORDERS.

To be obtained from

HALLER LABORATORIES, LTD.

325 Borough High Street, LONDON, S.E.1

Telegrams: "Virudana, Sedist, London."

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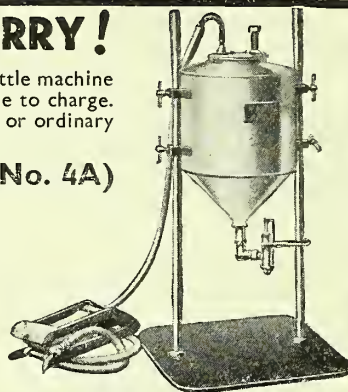
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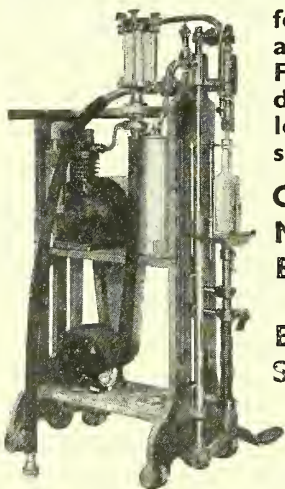
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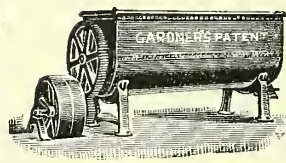
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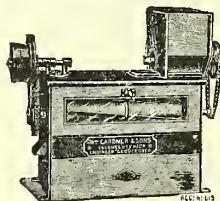
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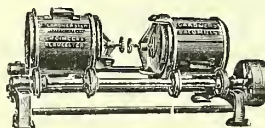
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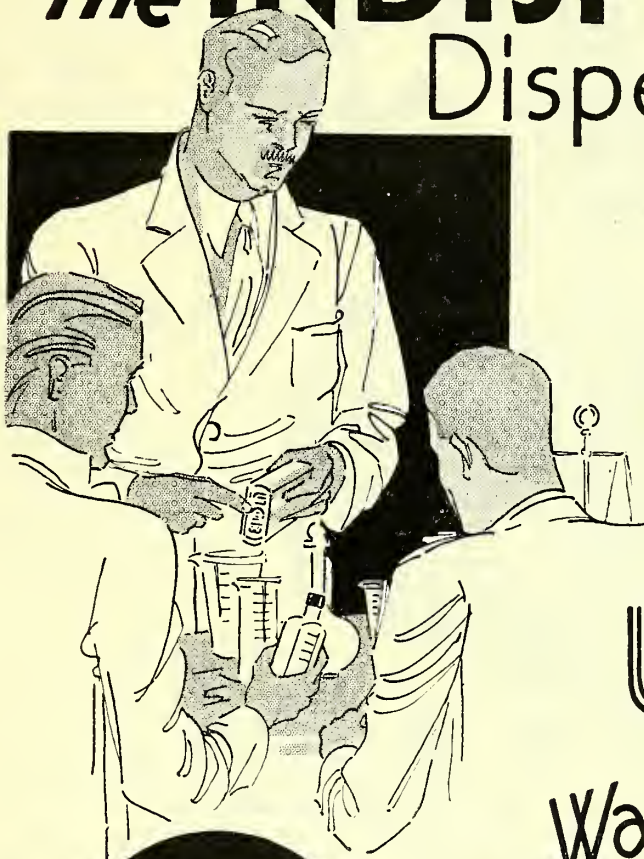
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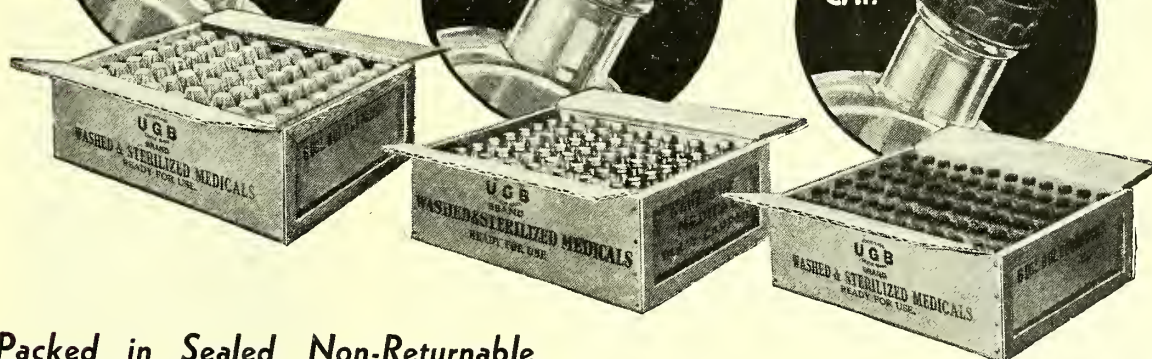
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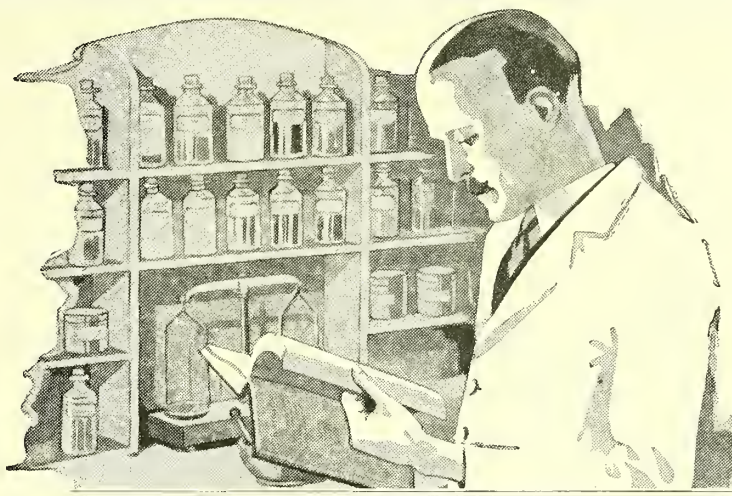
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*The official organ of The Pharmaceutical Society of Ireland,
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News of the Week

Cardiff Chemists' Outing

The second outing of the Cardiff Pharmacists' Association and Cardiff and District Branch of the Pharmaceutical Society took place on September 20, in the form of a "mystery tour." Two motor coaches left the City Hall and by a circuitous route through some of the prettiest scenery arrived at Brecon, passing through Hirwain and the noted Brecknock Beacons. A sharp thunderstorm was encountered whilst passing through the valleys. During the trip a novel competition was arranged, where competitors were requested to name the six principal places of interest which would be passed, and Mrs. A. Davies (Caerphilly Road) was declared the winner by naming five out of the six. Tea was served at the Wellington Hotel, this stay affording an opportunity for the president (Mr. J. Lee Jones) to welcome the visitors. During the evening an impromptu social took place.

Visit to Works

A party of over sixty members and friends of the Bolton Branch of the Pharmaceutical Society paid an interesting visit to the works and laboratories of Hirst, Brooke & Hirst, Ltd., Leeds, recently. The party made the trip by motor coaches, and on arrival were arranged into separate parties with distinguishing colour cards. Pharmacists found much to interest them in the galenical laboratories, drug mills, showrooms and offices. Among other things they noticed a series of ointment-mixing machines of the latest type. In the analytical department they were struck by the strict system of control. The offices are run on the most modern lines and are splendidly equipped. In the showrooms many points in modern display were learned. At the termination

of the tour tea was provided by the company, after which a hearty vote of thanks was proposed, and Mr. Geoffrey Hirst suitably replied.

Business Efficiency Exhibition

This exhibition was opened at the White City, London, W., on September 26, by the Rt. Hon. Lord Melchett, and will remain open until October 6. The exhibition is conducted under the auspices of the Office Appliances Trades Association, whose main objects are to promote efficiency and to create in the business world a truer appreciation of modern methods. The exhibits consist of a great variety of equipment, appliances and methods inspection of which reveals the remarkable progress being made in adapting office routine to changing times. A series of lectures by well-known experts is being given during the course of the exhibition.

Birmingham

The death is announced of Mr. A. E. Trimm, general manager in Birmingham of Lewis's, Ltd., who was an active promoter of charitable undertakings in the city and district.

The Birmingham Central Technical College will hold a course of twelve lectures and demonstrations on "Modern Developments Pharmaceutical Practice" on Thursday evenings commencing November 9. Application for admission should be made at once. The fee for the course is 11s. 6d.

Liverpool

The new edition of the National Insurance Formulary comes into operation in the Liverpool area as from October 1.

Fears of increased assessments have caused many chemists to delay putting in hand works of maintenance, alteration and improvement.

The Committee of the Liverpool Pharmacy Club met recently to arrange an interesting series of social functions for October and November. These include a trip to see the Blackpool illuminations, a swimming fixture at the Adelphi Hotel, and a series of dances.

Sheffield

Mr. E. A. Kirman, Church Street, is the secretary of the Pharmacy football team.

On the whole, trade is somewhat better in the city for this time of the year, although the amounts purchased are on the small side.

Miscellaneous

POISON-LICENCE APPLICATION.—Mr. R. H. Haigh, seedsman, Darlington, has applied to the Town Council for a licence to sell agricultural and horticultural poisons.

OXFORD BOTANIC GARDEN.—It is announced that the University of Oxford has made a grant of £2,000 for the extension of the Department of Botany buildings. An upper story will be added to the west wing of the building, with provision for students of mycology, and will include a sterilising room and other features.

INQUEST.—At Taunton, on September 22, an inquest was held on the body of Jean M. Hine, aged three, who died after drinking camphorated oil. In recording a verdict of "Accidental death," the coroner said that the public generally did not realise what a potent poison camphorated oil was. He thought it regrettable that chemists did not label it "Poison" rather than "Not to be taken," although, of course, they conformed to the law.

PHARMACY AND POISONS ACT.—At a meeting of the Bermondsey (London) Borough Council, on September 26, a member raised the question whether the Council will make application for the Pharmaceutical Society's inspector to be appointed as the local inspector, or whether they will avail themselves of their existing staff for the purposes of this Act. The public health committee has instructed the medical officer to report upon this point.

IN THE COURTS.—At Grimsby, on September 20, Frank Ashforth (54) was sentenced to six months' imprisonment for stealing hydrocyanic acid to the value of rs. and other articles, the property of Mrs. Sarah A. Johnson, 228 Cleethorpe Road. Mrs. Johnson said she had to engage a qualified chemist to deal with the National Health Insurance dispensing. The accused had control of the poison-cupboard. The defendant said that he had put rs. in the till for the acid, and that he was a qualified chemist.—At Old Street Police Court, London, on September 22, Mr. A. Bradshaw, trading as Bradshaw's Prescription Service, was fined 40s., with £5 5s. costs, for having sold at 79 Hare Street, Bethnal Green, E., Parrish's food deficient in ferrous phosphate to the extent of 49 per cent. and in tricalcium phosphate to the extent of 36 per cent.—At Gateshead, on September 25, Dr. G. D. Newton was fined £5 on each of four counts, with £12 costs, for failing to enter in a register supplies of cocaine received, and for failing to keep a register for the prescribed period.

Irish Notes

New Pharmaceutical Committee for Northern Ireland

In response to a notice issued by the Ministry of Labour for Northern Ireland a meeting of insurance chemists was held in the Grand Central Hotel, Belfast, on September 20, for the purpose of electing a Pharmaceutical Committee. The Committee will remain in office for three years from October 1, and will replace the existing six local Pharmaceutical Committees. Mr. S. J. Hudson (president of the Ulster Retail Drug Trade Association) occupied the chair. Mr. Wm. Blair (sec-

tary of the Association) explained that the meeting was held under the auspices of the U.R.D.T.A. as, in the opinion of the Ministry, the Association was a body representative of pharmaceutical chemists in Northern Ireland. The chairman called on Mr. Elwood, of the Ministry of Labour, to explain the reasons for the proposed change.

Mr. Elwood pointed out that in 1930, when medical benefit was introduced, it was considered advisable to set up a local committee representing chemists in each of six areas in Northern Ireland. It was anticipated that local difficulties might arise upon which it would be necessary to consult these committees. Those anticipations have not been fulfilled. The medical benefit scheme has worked smoothly, and although there are 450 chemists available for the supply of medicines to the insured population, and the cost of medicines they supplied last year was about £35,000, the number of complaints has been infinitesimal. There was therefore a feeling that one central committee on similar lines to the doctors' central committee would be a more practical proposition. That committee would, generally speaking, represent the interests of insurance chemists so far as the Ministry is concerned, and would be consulted by the Department on matters affecting chemists.

It was unanimously agreed, on the suggestion of Mr. W. J. Hardy, that sixteen members should be elected to the Committee, six representing Belfast and two from each of the other areas. The election resulted as follows:—

Belfast.—Mr. C. Abernethy, Mr. John Adams, Mr. J. Dundee, Mr. S. J. Hudson, Mr. J. McDowell, Mr. E. A. Richey.

County Down.—Mr. J. E. Connor (Newry), Mr. J. M. Poots (Newtownards).

County Antrim.—Mr. R. L. Chambers (Lisburn), Mr. John Hall (Larne).

County Armagh.—Mr. F. A. Ferguson (Lurgan), Mr. W. F. Pedlow (Portadown).

County Tyrone and Fermanagh.—Mr. W. V. Bates (Omagh), Mr. I. W. Parker (Enniskillen).

Regarding the County and City of Londonderry, it was agreed, in the absence of any representatives from this area, that the Derry Association be requested to send the names of their two nominees direct to the Ministry of Labour. Following the election, Mr. Elwood, by request, gave a lucid explanation of the functions of the several committees under the Act. A vote of thanks to Mr. Elwood was passed by acclamation.



GROUP OF IRISH PHARMACISTS WHO FORMED A PHARMACISTS' UNIT ON THE OCCASION OF THE RECENT IRISH NATIONAL PILGRIMAGE TO LOURDES

Standing (left to right): Messrs. J. A. O'Rourke, F. J. Fitzpatrick, Wilfrid O'Donnell, Thomas Burke, B.A.

Seated (left to right): Messrs. Bernard Murphy, P. J. O'Hanlon, M. J. Mullen.

Brevities

Mr. Arthur Storey, M.P.S.N.I., author of a manual of graphology, has contributed an article to the current

issue of the "Forum" on "What is the Ego?" Mr. Storey, who is compounder in Glengall Street Dispensary, Belfast, is a brother of Mr. Fred Storey, president of the Chemists' and Druggists' Society of Ireland.

The annual meeting of the Northern Ireland Committee of the British Optical Association was held on September 22 in Belfast, the outgoing chairman (Mr. A. Steede, Ph.C.) presiding. Mr. A. T. Hardy, Ph.C., presented the report, which was adopted. Mr. Harris Rundle was appointed chairman for the ensuing year, and Mr. Hardy was re-elected secretary. A discussion took place regarding optical education and tuition in Belfast. It was intimated that the authorities of the Municipal College of Technology were willing to do something in this direction, and a committee, consisting of Mr. Rundle, Mr. Hardy, and Mr. H. Mitchell, was appointed to wait on Professor Earls (Director of Technical Education), to draw up a syllabus suitable for students going forward for the F.B.O.A. and F.S.M.C. examinations. It was announced that Dr. Gerald Hobb, ophthalmic surgeon, had promised to lecture to students on diseases of the eye.

Scottish Notes

The Scottish Pharmaceutical Federation

A meeting of the Executive Council of the Scottish Pharmaceutical Federation was held in Edinburgh on September 13, Mr. A. Dick (president) in the chair. Applications for membership were submitted and passed. Among other matters, the following were under consideration:—N.H.I. test cases reported upon included prescriptions for (1) ointment containing ung. zinci oxidi and ung. hydrarg. ammon.; (2) mixture containing potass. iodid., hydrarg. perchlor. and water; (3) powders containing acid. acetylsal. and pulv. ipecac. co.; (4) gauze and cotton tissue. Indemnity claims were reported:—

(1) Against a member for £300 by a person who tripped over rubber matting on the pavement outside the member's shop; not settled. (2) Against a member by a person who purchased from him worm capsules for four greyhound puppies, which all died after the capsules had been administered; settled by an *ex-gratia* payment of £4.

The Federation had written to the Secretary of State for Scotland suggesting that a representative of the Federation be appointed to the Committee set up to review the existing health services of Scotland and stating that the knowledge and views of a retail chemist and druggist carrying on business in Scotland may be of considerable assistance to the Committee. The Secretary of State replied that while it was not found possible to accede to the Federation's request, he had no doubt that the Committee would be glad to receive evidence from the Federation at the appropriate stage of their proceedings. A charge was reported affecting a member who supplied crushed linseed alleged to be deficient in fixed oil to the extent of about 57 per cent. The member was defended by the Federation's solicitors, and the Court upheld the defence warranty. Sundry matters connected with the Pharmacy and Poisons Act, 1933, were considered. The accounts for the year ended April 30, 1933, and the auditors' report were submitted and approved. The further substantial increase in the funds was considered very satisfactory.

Brevities

Emulsions, cough mixtures and other winter lines are now featuring in pharmacy window displays.

The coming into operation of the Higher Leaving certificate for pharmaceutical apprentices is already raising the standard of youths seeking entrance to pharmacy. A recent advertisement for an apprentice brought some forty applicants to a Scottish chemist, but less than 10 per cent. had the necessary certificate.

Topical Reflections

By Xrayser

Christmas is Coming,

as we were reminded on receipt of last week's *C. & D.*, and there has been a narrow escape of the reminder not reaching us while we were still in the enjoyment of the so-called heat wave which has made the past summer so remarkable. But business must be attended to, and it is none too early to begin to give consideration to the question of what provision shall be made for the extra profit we hope to make by the sale of articles suitable for Christmas gifts. As I have on more than one occasion insisted, the chemist's shop provides a very suitable place for the display and sale of such articles, of perfumery in particular, but also of personal requirements of the kinds that men and women are not invariably disposed to purchase for themselves. Your article on gifts for the Christmas trade (p. 385) is therefore most timely, and it is wonderfully reinforced by the special advertising pages in which so many well-known manufacturers and wholesale dealers offer their latest novelties for our consideration. My advice is to decide upon Christmas plans without delay, and place all necessary orders; then to get busy with the display of the goods as soon as possible after delivery, so as to avoid any risk of having an undue amount of special stock left on hand at the end of the year.

Irish Pharmacists

have arrived at that period of the year when approaching council elections begin to excite their interest. Nominations for the Councils of both the Societies have been received, and there are to be contests in both the Southern and Northern areas (pp. 399 and

401). It is always a healthy sign, in my opinion, when there are more candidates available than places to fill, as it indicates a lively interest in affairs among the members generally. Particular interest attaches to the contest for the older Society, because there both the president and the vice-president are among those seeking re-election; but the president of the younger body is also among those who have to satisfy their constituents that they are worthy of continued support.

Commercial Travellers

must naturally expect to be received differently in places which are bustling with activity from those which are more remote. In the latter they are usually welcomed as providing an interesting living link with the outside world. They bring the latest news (and, if wise in their generation, the most up-to-date knowledge of affairs) to people who have time on their hands and to spare for talking. In big towns the position is different, and it is not always easy for a traveller to convince those upon whom he calls for orders that there was any occasion for him to do so. If a chemist is not so situated that he is able to order minimum requirements of anything by telephone and secure delivery the same day, he finds it serves his purpose as a rule to order any goods required by post. So the traveller who calls must depend mainly upon novelties, or special terms he may have to offer, as means of securing business. And the chemist may be too busy, or too weary, or too anxious to get away for a game of golf or other recreation, to have time to spare for engaging in conversation with even the best-liked travellers.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

BANN'S PHARMACY, LTD. (P.C.).—Capital £100. Objects: To carry on the business of chemists and druggists, etc. R.O.: 186 Higher Hillgate, Stockport.

COLEMAN'S (CASH CHEMISTS), LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, etc. R.O.: 93 Glendale Gardens, Leigh-on-Sea, Essex.

LABONS, LTD. (P.C.).—Capital £300. Objects: To carry on the business of manufacturers of and dealers in chemicals, gases, drugs, medicines, etc. R.O.: 66 Crossford Street, Coventry.

ANGLO-EUROPEAN MANUFACTURING CO. (1933), LTD. (P.C.).—Capital £300. Objects: To carry on the business of chemists, druggists, etc. R.O.: 4 Denmark Terrace, Holmdale Road, N.15.

HARTS THE CHEMIST (DERBY), LTD. (P.C.).—Capital £10,000. Objects: To acquire the business of a chemist, now carried on by Herbert G. Pattison as "Hart & Co.," at 38 Corn Market, and elsewhere in Derby.

SCIENTIFIC HEALTH AIDS, LTD. (P.C.).—Capital £100. Objects: To carry on the business of manufacturers of and dealers in electrical apparatus and appliances, medical, surgical apparatus, etc. R.O.: Ivy House, 30 Newgate Street, E.C.1.

LONDON MOULDERS, LTD. (P.C.).—Capital £10,000. Objects: To carry on the business of manufacturers, distributors of chemical products of all kinds, resins, synthetic or artificial, gums, etc. Solicitors: Rothera, Sons & Husbands, Nottingham.

THE LIVERPOOL BORAX COMPANY (1933), LTD. (Public Company).—Capital £65,000. Objects: To acquire the business of the Liverpool Borax Company, Ltd., and to carry on the business of borax and soap manufacturers, soap boilers, manufacturing chemists, etc. R.O.: 43 Castle Street, Liverpool.

SMORTHWAITE, LTD. (P.C.).—Capital £2,000. Objects: To carry on the business of wholesale, retail and manufacturing chemists, druggists, etc., manufacturers of and dealers in medical and surgical appliances and apparatus, photographic supplies, etc. R.O.: The Pharmacy, The Square, Liphook, Hants.

COOPER, McDUGALL & ROBERTSON (IRELAND), LTD. (P.C.).—Registered in Dublin. Capital £1,000. Objects: To carry on the business of manufacturing, agricultural and general chemists, and manufacturers of and retail dealers in all descriptions of sheep dips and cattle dressings, drugs and disinfectants.

REDRUB, LIMITED.—At an extraordinary general meeting of the company, held at the Bell Hotel, Church Row, London, E.C.3, on September 23, the chairman, Mr. W. R. Bloomer, in proposing that the nominal capital of the company be increased to £5,000, informed the meeting that the directors did not consider such a large capital or anything like such sum necessary for the present, but that they had considered the matter very carefully, and were unanimously of the opinion that it would eventually be in the interests of the company to have a reserve of capital, in view of the fact that they had other lines, in addition to Redrub, to place on the market. He also informed the meeting that it was the intention of the directors at once to embark on a carefully prepared advertising scheme. He pointed out that it was unreasonable to expect the wholesaler and distributor to support them to any great extent until the company had proved its worth to them, and that this could only be accomplished by advertising. The company, he stated, had now a fully equipped factory and could execute orders by return. The resolution was carried unanimously.

WRIGHT, LAYMAN & UMNEY (1932), LTD. (proprietors of Wright's Coal Tar Soap).—Dividend declared on the £280,000 7 per cent. preference share capital, and an interim dividend of 2½ per cent. on the ordinary share capital of £60,000, both payable on September 30.

Voluntary Liquidation

Lancashire Asbestos Co., Ltd., Hurst Mills, Ashton-under-Lyne. At the statutory meeting of the creditors held at the offices of Messrs. Ashworth, Mosley & Co., C.A., Manchester, Mr. J. W. Kenworthy, one of the directors, presided and reported that resolutions had been passed for voluntary liquidation and Mr. L. Shaw had been nominated as liquidator. The statement of affairs showed ranking liabilities of £24,229 11s. 2d., all due to unsecured creditors. The assets, after allowing £406 13s. for preferential claims, amounted to £5,003 14s. 2d., or a deficiency as regarded the creditors of £19,225 17s. The assets consisted of machinery £380, stock £3,500, sundry debtors £1,260, cash in hand £20 7s. 2d., and share calls in arrear £250. Nothing had been included in the statement of affairs in respect of the goodwill and patents. The debenture holder did not want to take any preference under his debentures, and had agreed to rank as an ordinary unsecured creditor. Liabilities included the bank for £17,640, and they held a third-party guarantee. The machinery included in the statement of affairs was that acquired for the manufacture of asbestos. A resolution was unanimously passed confirming the voluntary liquidation of the company with Mr. Shaw as liquidator.

Gazette

Bankruptcy Acts

RECEIVING ORDER

MAUGHANS DRUG STORES, 312 DEVONS ROAD, BOW, LONDON, E., "druggists."

RECEIVING ORDER AND ADJUDICATION

HAWDON, H. A., 265 Cleethorpe Road, Grimsby, Lincoln, drug store proprietor.

Business Changes

MR. A. J. CHUTER, chemist and druggist, has taken over the business of Mr. H. Long, the West End Pharmacy, Chippenham.

THE address of White's Laboratories, Ltd., has been changed to Thames House, Westminster, London, S.W.1, as from September 29.

MR. G. A. C. DISHMAN, chemist and druggist, has acquired the branch at 1 Market Street, Hyde, of Mr. H. Eellringer, chemist and druggist, Great Clowes Street, Manchester.

ON and after October 2 the offices and warehouses of Courtin & Warner, Ltd., will be situated at more commodious premises at Worcester Street, Southwark Street, Borough, London, S.E.1. Telephones: Hop 3817, 3818.

ON and after October 2 the offices and warehouses of The Boehringer Corporation (London), Ltd., will be situated at more commodious premises at Worcester Street, Southwark Street, Borough, London, S.E.1. Telephone: Hop 3075.

MR. ERNEST J. GEORGE, chemists' valuer and transfer agent, has taken into partnership Mr. John Ernest Rushton, who has been associated with him in the business for some years, and latterly as his London representative and manager. The business will in future be known as Ernest J. George & Co., Tudor House, Walsall, and Bank Chambers, 329 High Holborn, London, W.C.1.

Pharmaceutical Society of Ireland

Council Candidates

THE five outgoing members of the Council of the Pharmaceutical Society of Ireland who are going forward for re-election are Messrs. Patrick Brooke Kelly (president of the Society), Patrick J. Fielding (vice-president), James McCormack, David Warwick, and Thomas J. Smith.

Mr. Brooke Kelly,

who has filled the office of president for the past two years with dignity and ability, carries on business at Enniscorthy. He is a widely travelled pharmacist who has a knowledge not only of Irish pharmacy but of Continental pharmacy as well.

Mr. P. J. Fielding,

the vice-president, who is Munster's representative on the Council, comes from Cork City, where he controls one of the largest and most progressive pharmacies in the Southern capital. He is also a skilled optician. He has filled the office of vice-president with marked capability.

Mr. James McCormack,

is Wexford's representative on the Council. Mr. McCormack has been consistently attentive to his duties as a member.

Mr. David Warwick,

one of the Dublin group, has been a real acquisition to the Parliament of Irish Pharmacy, and his businesslike outlook on the questions at issue has always commanded the attention of his colleagues.

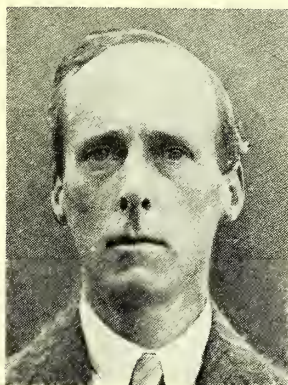
Mr. T. J. Smith,

the representative of the teaching side, as Professor of Pharmacy in the Society's Schools, has kept the Council fully informed of educational aspects.

The three new candidates in the field are Messrs. James Duggan, Andrew Farrington and Bartholomew P. Hickey.

Mr. James Duggan,

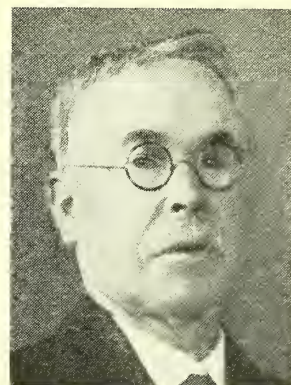
who is president of the Dublin and Provincial Retail Druggists' Association, comes of an old Dublin family associated with the drug trade for years. Mr. Duggan carries on the business founded by his father at 49 Summerhill Parade, where he served his apprenticeship. He qualified as a pharmaceutical chemist in 1916. On the death of his father, in 1921, Mr. Duggan took control of the business in Summerhill. Outside the work of carrying on this successful Dublin pharmacy Mr. Duggan has been one of the most active members of the Dublin and Provincial Retail Druggists' Association. For two years he filled the office of vice-president, and has been president since 1931. His record shows him as the possessor of an excellent experience in pharmaceutical affairs.



MR. JAMES DUGGAN

Mr. Andrew Farrington,

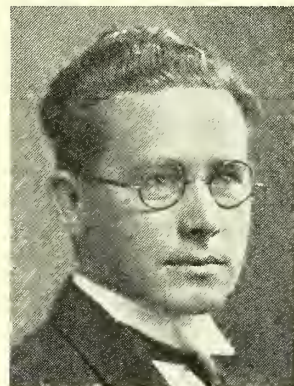
is also an old Dubliner who can claim to have spent fully half a century in the pharmaceutical business. He served his apprenticeship with Jose & Co., a Continental firm who settled in the city, and qualified as a pharmaceutical chemist thirty-seven years ago. After qualifying, Mr. Farrington opened his own business at 19 and 20 Cornmarket, where he has built up an extensive family trade. Mr. Farrington has now the assistance of his daughter, Miss Anastasia Farrington, who is a pharmacist, while another daughter, Dr. Mary Farrington, carries on a successful medical practice. Of his wide experience and sound judgment Mr. Farrington has given ample evidence.



MR. A. FARRINGTON

Mr. Bartholomew P. Hickey,

the third new candidate, ably represents the younger generation of pharmacists. Mr. Hickey, to use his own words, will, if elected, "carry on the good work already being done by the Council, and stand for the administration of the Pharmacy Acts without fear or favour." He states that he is also in favour of the strict enforcement of the poisons laws. Mr. Hickey, who is a native of Dublin, served his apprenticeship in Mr. MacManus's pharmacy, Chapelizod, co. Dublin. From there he gained further experience in pharmacies in the West and Dublin City, qualifying in 1931. A year ago Mr. Hickey opened the first pharmacy to be established in Rush, co. Dublin, a pleasant and growing suburb.



Photo] [Lafayette
MR. B. P. HICKEY

National Pharmaceutical Union

New Member of Executive

THE result of the by-election held in Western Division 2 to elect a member to the Executive Committee in the place of Mr. F. D. Phillips, who had resigned owing to ill health, is as follows:—

Davies, Benjamin Pugh	...	...	...	92
Jones, John Lee	...	...	...	75
Davies, William Oswald	...	...	...	64
Rees, Daniel Iltyd	...	...	...	22

The number of votes in the Division is 417; 257 votes were cast, of which 253 were valid, a percentage of 61.39. Mr. B. P. Davies is elected to the Executive till March 31, 1935.

The Chemists' Exhibition

London, September 25-29

THE forty-second Chemists' Exhibition organised by "The British and Colonial Pharmacist" was opened at the New Hall of the Royal Horticultural Society, Greycoat Street, Westminster, S.W.1, on September 25 and closes on September 29. A representative gathering of manufacturing, wholesale and retail chemists from all parts of the United Kingdom and elsewhere supported the president of the Pharmaceutical Society (Mr. John Keall), who declared the Exhibition open. Mr. Keall said that these exhibitions were valuable in assisting the development of pharmacy. The Exhibition could be termed a post-graduate course in commercial education. It was still "going strong"—a testimony to its value, not only in the opportunity it offered of inspecting the latest products, but in that it afforded further opportunity of contact with those who were the moving spirits in the world of commerce—contact which provided the opportunity of fraternisation and the meeting of old friends and business associates who generally were widely separated. Mr. P. F. Rowsell (chairman of the National Pharmaceutical Union), in proposing the vote of thanks to Mr. Keall, spoke of the sixpenny line, and suggested that it should not be ignored. At the same time he recommended that chemists should try to develop the sale of better-class articles at a higher price. Mr. Fred Storey (president of the Chemists' and Druggists' Society of Ireland), in

seconding, spoke of the great pleasure the Irish representatives had in coming to these exhibitions.

The organisers entertained a large company at lunch, after which Dr. C. H. Hampshire (chairman of the British Pharmaceutical Conference) proposed the toast of "Success to the Chemists' Exhibition," coupling with it the name of Mr. A. C. Merrin, editor of "The British and Colonial Pharmacist." He spoke of the social contacts which the Chemists' Exhibition brought with it. He admired the artistic and skilful display, together with the knowledge of the psychology of advertising that was shown in the Exhibition. Mr. A. C. Merrin, in reply, said it was the aim of the organisers to make the whole show reflect the newest and latest in pharmaceutical products in order to provide fresh openings for trade for the man behind the counter, and to stimulate his interest in the truly professional side of pharmacy. Mr. G. A. Mallinson (secretary of the National Pharmaceutical Union) proposed the health of Mr. Keall, and this was enthusiastically honoured. After Mr. Keall had replied, Mr. Storey, on behalf of the company, expressed their thanks to Mr. Merrin and to the organisers for their hospitality.

Chemicals, Drugs and Proprietaries

ALLEN & HANBURY, LTD., have an exhibit that well represents their numerous activities in the production



of medicines, foods and other things sold or used in the pharmacy. In infant foods, for instance, they are showing two new varieties—one "half cream" and the other with added iron. A baby-weighing machine with provision for tare (of a cushion, or whatever may be comprised under that heading) is an interesting feature, as also is a chromium-plated weighing machine for adults, with a scale indicating $\frac{1}{2}$ -oz. graduations. Dispensing scales, too, are shown in new and old (improved) patterns. We note that bonus offers are open in respect of Baby Powder and other specialities. Among galenical preparations prominence is given to Lixen (from senna pods), French Syrup (for coughs), and the increasingly popular Halibol series, which, as its name indicates, consists of preparations of, or incorporating, halibut-liver oil. The series includes capsules Halibol B (halibut-liver oil with viosterol and vitamin B), capsules Halibol Calcium, Halibol Malt, and Haliborange (Halibol brand halibut-liver oil with viosterol in combination with Allenburys orange juice). Other products on view include granular effervescent glucose (lemon or raspberry flavoured), Allenburys Glucose Orange (a drink of the "squash" type), and, of course, the familiar Torch brand series. At the back of the stand is built up a comprehensive range of agricultural and veterinary preparations, from Plough brand cod-liver oil to wasp exterminator. And at one corner is a striking collection of pharmacy pots, with other curios, lent by Mr. A. J. Fairlee.

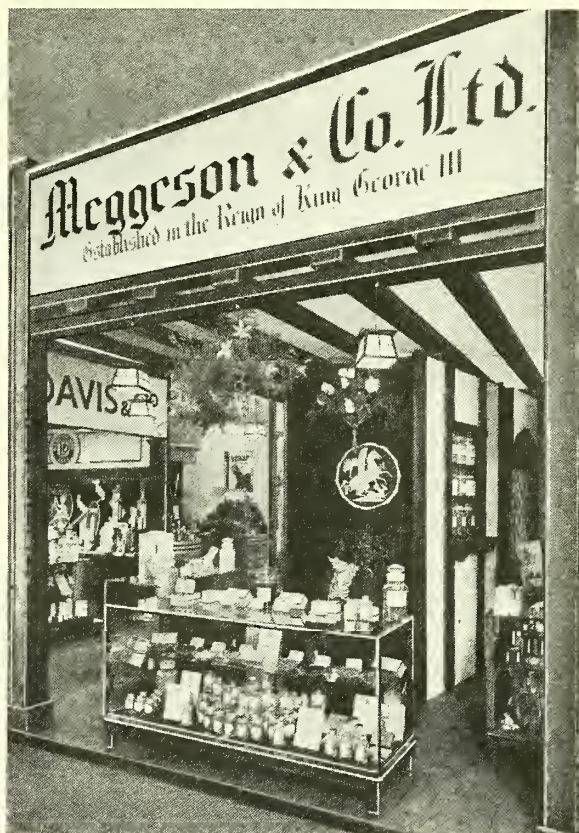
ANGLO-AMERICAN PHARMACEUTICAL CO., LTD., are showing a number of Huxley's preparations, including Wintogeno, Witch Hazel jelly, Sal Antisepticus and Dermafoam. The last-named is a new product described as "an oil soluble emulsion which facilitates extraction of embedded dirty deposits in the skin crevices." Casali Alpha, the elixir of life, according to the daily Press of late, is also on view.

MR. ROBERT BLACKIE has an attractive display, chiefly pharmaceutical but also including some toilet lines. Samples of spun ointments occupy a place in the foreground, and various proprietaries (e.g., Thermokaline) are also on view. Halibut-liver oil, with and without malt extract, is being featured as indicating a line of treatment destined to increased popularity. Packed goods, a leading item in the output of this manufacturing house, are shown in considerable range.



BURGOYNE, BURBIDGES & CO., LTD., are showing a comprehensive range of their pharmaceutical and toilet preparations. In the Red Diamond series our attention was attracted by the Kaolin poultice in its neat tin

provided with a handle—a good selling point. MacLean's powder and Inhalene are other members of the same series. The pharmaceutical side is also represented by



Nymfa Slimming Aids, Normo-Gastrine, Zotal Liniment and several other proprietaries. The well-known Spartan series of mixtures and other goods is also on view, together with a wide selection of toilet products under such attractive names as Apollo, Diana, Lotus and Oriflamme. Here, in brief, utility and style are combined.

CORN PRODUCTS CO., LTD., are showing liquid and powdered glucose of the Dextrosol brand, together with Karo syrup, a children's food consisting of dextrin, dextrose, malto-dextrin, maltose and sucrose. Excellent results are being obtained by the addition of Karo syrup to diluted cow's milk, and a booklet on the subject is obtainable from the company.

COW & GATE, LTD., are again calling attention to the virtues of food products for infants and invalids. For the latter there is Peptalac and for the former the dried milk and rusks. There is also the Cow and Gate feeding bottle on view, in connection with which there is supplied a teat which is described as depending in operation upon munching by the infant and not sucking.

J. C. ENO, LTD., have a composite exhibit in which a section is devoted to each of the following:—Eno's Fruit Salt, Pompeian Beauty Preparations, the products of VITAMINS, LTD. (BEMAX) and THE THERMOGENE CO., LTD. The Pompeian Company have recently commenced manufacturing in England, and have established a factory at Haywards Heath.

EUCRYL, LTD., have a display comprising their widely-known tooth-powder, tooth-paste and denture powder, a lysol guaranteed to contain 50 per cent. of cresols and to be readily miscible in water in all proportions, and the products of Thomas Keating, Ltd., for whom they are sales agents. We noticed also on the stand an attractively packed magnesium peroxide tooth-paste in two sizes and a lysol ointment suitably carded for display.



EX-LAX, LTD., have designed their stand in the same distinctive style and colours as the new pack of Ex-Lax brand chocolate laxative. One end of the stand forms an open soda fountain counter, where visitors are invited to partake of Jaffa Orange Crush or Lemon Squash, without charge. The main frontage consists of a display window containing the attractive Ex-Lax full window display. Inside the stand the chemist may inspect the advertising material issued by the company, who announce a bonus offer.

FASSETT & JOHNSON, LTD., have on view a comprehensive selection of the numerous proprietaries for which they hold agencies. Prominent among these are Crystal Eye Balm (the latest word in beauty culture), Ti-Trol Germicidal Toilet Soap, Zev (a new depilatory), Stablond (a shampoo for fair hair), and Dr. Wernet's denture preparations. These novelties are attractively displayed, and are accompanied by such old favourites as Seabury & Johnson's specialties. Angier's Emulsion and Mennen talcums.

GENATOSAN, LTD., have a strikingly designed stand, the architecture of which is certain to attract the passer-by. An important feature of this year's display is the multiplicity of booklets, giving selling points on the well-known products manufactured by the company. Among these are Sanatogen, Genasprin, Genozo brand tooth-paste and mouth-wash tablets, and vaccines of various kinds.

F. W. HAMPSHIRE & CO., LTD., have this time concentrated on Zubes (their popular throat pastilles) and Balsamic Emulsion brand Curative Tonic. The latter has already a record of mounting sales, and, it appears, commends itself wherever it is introduced. Inquiries as to this chemists' line are welcome by the makers and their representatives.

THOMAS HARLEY, LTD., use their stand to show a number of original window displays which have the features of simplicity and ease of reproduction. A special bonus offer for Rodine rat poison dates from October 2 to October 16, inclusive, and orders can be booked at the stand.

HOWARDS & SONS, LTD., have a striking display of their specialties, prominent among which is Howards' standard ether for producing anaesthesia. This product is now made from pure spirit, duty free, while the price remains the same as before. Pharmacists will be interested in the series of elegant small packages for sale over the counter, such as boracic acid powder, powdered borax, Glauber's salt, Epsom salts, etc. Howards' Avantine brand of iso-propyl alcohol, synthetic menthol, thymol, Quinisan, hydrogen peroxide, and Howards' aspirin tablets are other products of established reputation shown on the stand. We were informed that a talking film showing the manufacture of Howards' aspirin and Quinisan will shortly be released in several important towns, and that free window display material is available to pharmacists who wish to link up with this useful publicity.

Prominent on the stand of ERNEST JACKSON & CO., LTD., is a new range of 6d. tins of the popular varieties of lozenges and pastilles. This Centurion tin series is packed in tastefully decorated tins, in display outers of one dozen, and may be obtained in the following varieties:—Black currant and glycerin pastilles, compound glycerin of thymol pastilles, eucalyptus and menthol pastilles, antiseptic throat pastilles, laxative pastilles, catarrh pastilles, curiously strong peppermint lozenges, and bronchial lozenges. The stand also includes displays of Glossettes, children's cherry cough pastilles, glucose products, and compressed tablets in a variety of styles of pack.

MACLEANS, LTD., have used the now familiar yellow, white and blue colour scheme associated with their name as a background for a display of their products. Chemists whose pharmacies have ample window frontage may take advantage of the large wooden cut-out display pieces for Maclean brand stomach powder and Maclean's peroxide tooth-paste; these may be booked by arrangement.

MCCLURE, YOUNG & CO., LTD., have a well-varied display of packed pharmaceutical products, galenicals in bulk and proprietaries. A smart effect is made with a

black-and-white window showing Monofix, their vegetable oil hair cream. It is of interest to note that Messrs. McClure, Young & Co. are the sole concessionaires for the British Isles for Pistany radio-active mud.

The stand of MEGGESON & CO., LTD., is designed in an old timbered style with the object of symbolising the fact that the House has behind it a history of over 130 years. The preparations displayed on the stand, however, exemplify the most modern methods of manufacture and up-to-date styles of packing. Prices, we understand, have recently been revised, so that, whilst the quality remains the same, the cost is strictly competitive. Among the wide range of products shown the following are perhaps worthy of special mention:—Sore throat lozenges, a well-known and efficient preparation; Vistic, a dental plate fixative powder requiring no introduction to our readers; digestive China tea, selected on account of its low tannin content; barley sugar sticks, available in several flavours; herbal cough drops, prepared to a good formula and neatly packed; bismuth dyspepsia tablets; and many varieties of pastilles and lozenges. A new illustrated price list is now ready and will be sent free on application.

MILTON PROPRIETARY, LTD., who are using the new Milton atomiser throughout the Exhibition, demonstrate its points at their stand. Milton Dental Cream and Milton Aniseptic Ointment (both put up in tubes—two sizes) are also shown.

H. R. NAPP, LTD., are showing a wide range of specialties of which they are the distributors, including Normacol, Somnosol and Xorox, and the fine chemicals of E. Merck. Messrs. Napp also informed us that they are in a position to supply halibut-liver oil in bulk quantities.

NATIONAL CHEMICAL HOLDINGS, LTD., have a neat display of Marchers Foot Bath Salts and other proprietaries. The colour change which these foot-bath salts undergo when added to water is an attraction to the average user. Among other goods shown are Apple-doc (a fruit laxative) and No. 33 Cathedral Brand Cologne. With one dozen of the latter are given $\frac{1}{2}$ doz. trial-size bottles.

NATIONAL DRUG INDUSTRIES, LTD., have an attractive and well-placed stand on which are displayed their numerous proprietaries, together with a representative selection of galenicals and toilet preparations, the last-named class including some neat coffrets. The increasing vogue for halibut-liver oil is reflected in Halibyn, a product combining this oil with malt extract. Other features include Petrolax, Peldo Skin Cream, and Septer (a germ-destroyer). The last-named consists of an ingenious contrivance to be filled with the antiseptic cream supplied and worn in the nostrils. It is neatly packed, with directions for use.

A prominent position in the Exhibition is occupied by the stand of PARKE, DAVIS & Co. Here may be seen such well-known products as Euthymol tooth-paste, Haliverol, P.D. hydrogen peroxide, Neko germicidal soap, P.D. shaving cream, P.D. stimulating embrocation and chloretone inhalant. Among the recent introductions shown are Antniron "S," the sex-stimulating hormone of the anterior lobe of the pituitary; Hemoprotein, a solution of proteid fractions used by injection to supersede protein shock therapy, and liver extract, intramuscular. Our representative's attention was called especially to sal-ethyl carbonate, which is described as the latest advance in salicylate medication, and to dicalcium phosphate (P. D. & Co.), an effective calcium-phosphorus compound in the proper proportions for correct physiological utilisation.

RECKITT & SONS, LTD., have introduced under the name of Dettol a new germicide, the noteworthy properties of which include a Rideal-Walker co-efficient of 3.0; it is non-poisonous, non-irritant, non-staining, pleasant smelling. The preparation is attractively packed, and in view of its many advantages should command a ready sale. In addition to Dettol there is Dettol Soluble, which is intended for use in sterilising surgical instruments, but this is not for sale to the general public.

A. L. SIMPKIN & Co., LTD., specialise in the manufacture of high-class confectionery for chemists, and are showing a complete range of their lines. Prominent on the stand are barley sugar (in sticks, cubes and drops), peppermint creams, digestive mints, glycerin glucose fruits, vitamin malt and butter, and many other high-grade products made by Messrs. Simpkin solely for sale by chemists. There are also featured specially malt and butter toffees and grape fruit toffees, as well as a range of medicated tablets.

STEMCO, LTD., are featuring Cream of Nujol (a palatable emulsion incorporating Nujol), Stemcol (an emulsion for coughs and throat troubles), and Stemfos brand improved tonic food. Other items in a well-balanced exhibit are Mistol (for nose and throat), Forhan's tooth-paste and liquid paraffins.

SUNSWEEETS, LTD., are showing a complete range of their high-quality confectionery which is specially prepared and packed for sale by chemists. The sweets are cellophane wrapped and make an attractive display.

C. TOLKIEN & Co., LTD., malt extract manufacturers, are showing this product in a wide range of packings and in various combinations, including that of halibut-liver oil. Chemists who have not yet purchased their season's requirements will find it worth while to pay a visit to this stand before placing an order.

THE VICK CHEMICAL Co. are calling attention to Vick brand Vapour-Rub, their ointment which is already familiar to chemists and the public, and to a new line to be known as Vick brand lozenges. The latter, which sells at a popular price, is to be the subject of an introductory bonus.

WATKINS & LAING (LONDON), LTD., have a varied and salesmanlike display of packed goods (including toilet preparations). Among the specialties shown are Sae-Sal brand Nerve Tablets, Dengerin brand Antiseptic, and Optics Eye Lotion, all of which are reasonably priced.

WRIGHT, LAYMAN & UMNEY (1932), LTD., have designed their stand with a view to showing the many branches of the drug trade for which they cater. A prominent position is naturally occupied by Wright's coal tar soap and the associated specialties. The packed pharmaceuticals offered by the company, especially seasonal lines, are also well in evidence, and there is an interesting display of perfumes. Another side of the company's business which should not be overlooked is concerned with the handling of private formulas—producing for the customer his own speciality ready for sale.

Other exhibitors in this section include:—BOND PRODUCTS, LTD. (Wincapine brand medicated wool); W. T. OWBRIDGE, LTD. (Owbridge's Lung Tonic); OXO, LTD. (organotherapeutic products); PHILLIPS YEAST PRODUCTS, LTD.; PROMEDICO (uric acid pills); W. J. RENDELL, LTD. (Rendell's Pessaries).

Toilet Preparations and Requisites

R. ADDIS & SON called our attention to the exceptionally wide range of tooth brushes they are exhibiting, including models the shapes of which are intended to meet demands from overseas, e.g., the Dominions, Argentine, France. As regards the home trade, Messrs. Addis have studied this for over 150 years, and whether it is a matter of "long" heads or "short" heads, handles in bone or other material, there is on view a model which would meet the demand of the most difficult customer. In addition the company are showing dental plate brushes specially designed for cleaning the interstices, nail brushes with wood or celluloid backs and military hair brushes.

ANZORA PERFUMERY Co., LTD., who have always been among the consistent national advertisers, are again exhibiting Anzora and Anzora Viola, of each of which there are now three sizes available. Anzora brilliantine is another line which figures in an attractive display.

AVA, LTD., have a striking display of their eau de Cologne products, while an entirely new range is the Ava Christmas gift boxes. Another new line is a soapless shampoo powder, which, we were told, has proved a successful seller in districts where it has been tried out.

GUSTAV BOEHM is showing the coffrets of Marlborough's Queen Anne lavender products and the Delavelle perfumery illustrated in last week's *C. & D.* (p. 391). The boxes for the former are on the exterior of a buff colour, grained, with red edges, the interior being gold with red partitions. This design makes an effective setting for the Queen Anne lines in colour scheme, of which buff has been employed for much of what was hitherto green. As regards the products themselves, they are already so well known to chemists and the public as to require no further description. Delavelle perfumery is also artistically presented and is excellent value.

E. N. BROMAGE & Co. have a neat display of "True Flower" perfumes, among which their Sweet Pea Petals is accorded prominence. An Australian perfume known as Boronia is a novelty with points of its own. The exhibit also includes beauty powder, talc and bath crystals.

CAMILATONE, LTD., exhibit a complete series of Camilatone hair beauty preparations. Special attention is being drawn to the new pack of Golden Rinse, and to Lustriset and Lustriset High Gloss.

THE COUNTY PERFUMERY Co. have an attractive display of their toilet specialties. Brylcreem, nationally advertised, has, we learn, shown a 60 per cent. increase in sales on the figure of a year ago. Other features of the stand are Quickshave (shaving cream), Hill's Hair Darkening Bay Rum, Hill's Smokers' Tooth Paste, and a variety of "County" brillantines, shampoos, frictions and other toilet goods.

One of the largest stands in the Exhibition (perhaps the largest) is that of THE DUBARRY PERFUMERY Co., LTD., which is devoted chiefly to Christmas gifts, and particularly to gift sets. These are both numerous and varied, and strike a pleasing note of modernity. An unusual feature is the range of gift sets for men. As is well known, the choice of Christmas presents for men often presents a considerable difficulty. Messrs. Dubarry have set forth their solution of the problem, and a very pleasing solution it is.

EBE, LTD., have a smart assemblage of beauty preparations in distinctive containers. These containers are unbreakable, translucent, and tinted in many colours in accordance with the wish of the customer. These products include face powders in many shades, Antiseptic Face Pack, Eye Shadow, Water Mascara and Lagoon bath powders.

PAPIER Poudre, LTD., whose stand is presided over by Mr. F. A. Bell, chemist and druggist, have on view a number of lines already well known to chemists, among others, the Cottage Garden series of perfumes, nail polish in book form, travelling beauty outfits and pot pourri sachets. The last mentioned is one of the new lines and should not be overlooked by chemists in search of articles which can be sold either as Christmas gifts or included as part of the regular stock.

PARFUMERIE DE FLEURY, LTD., have one of the most artistic stands in the Exhibition on which to display their attractive coffrets, of which a comprehensive range, suitable for ladies and gentlemen, is available. We learn that these gift sets are priced upon their "break-up" value, so that there can be no question of dead stock after Christmas.

PREMO BRUSHES, LTD., are showing their well-known all-rubber brushes which are now available in a wide range of colours—flesh, brown, green, blue, brick, violet, and a mottled combination called jazz. In addition to the nail brushes and bath brushes, most of which have been described and illustrated in the *C. & D.*, there is now a complexion brush and a "heavy duty" brush, the latter being intended for removing grease from the hands, or for cleaning baths and toilet basins.

At the stand of POTTER & MOORE, LTD., may be seen an attractive display of the company's well-known perfumes and toilet preparations. A prominent position is given, of course, to the popular Mitcham lavender series, which contains the successful powder-cream in dainty mirror-fitted jars for the handbag. A new Cologne powder-cream is also shown, as well as an attractive addition to the Blue Ribbon eau-de-Cologne series in the form of a ribbed glass tube fitted with a chromium-

plated cap carrying a dainty silk tassel. A good portion of the stand is occupied by a display of Christmas gift coffrets.

PRICHARD & CONSTANCE (MANUFACTURING), LTD., show a complete range of Amami shampoos, featuring specially the latest product—the Amami special henna for auburn and bronze shades of hair. Other lines of more than ordinary interest include the Amami liquid pine tar tonic shampoo, Amami wave set and Amami manicure preparations.

TORMIDOR, LTD., have a fascinating display of sprays, some with bulbs and some without. It is to the latter that attention may be specially directed, as they are leakproof and guaranteed free from mechanical defect. Moreover, the company has schemes for enabling chemists to sell a spray and perfume all the year round, propositions which are of particular interest to proprietors of businesses in seaside resorts. The popularity of flap jacks has been taken advantage of to introduce a spray which should strongly appeal to ladies owing to the attractive designs and suitability for carrying in a handbag.

WALDEN, WALDEN & Co. are devoting the major portion of their stand to Nufix hair dressing, an attractively packed preparation which is stated not to contain gum. Other lines on view are setting lotion and Aerofume deodoriser.

R. F. WHITE & Co., LTD., are exhibiting a selection of toilet lines specially suitable for the Christmas trade. These include a range of perfumes and toilet requisites in Pompadour Violets, other varieties being Real Mitcham violets, Real Mitcham lilies, Real Mitcham lavender, Linette brand eau de Cologne, jasmin, lilac, etc. Messrs. R. F. White guarantee all their soaps to be pure and made from the finest ingredients only.

ZENOBI, LTD., have a wide range of perfumery admirably displayed. We learn that their Lily of the Valley and other original perfumes remain unchanged in formula, a point of considerable interest to retailers who have a steady sale for these products. The Charmol series, at popular prices, forms an effective counterpart. The ingenious construction of the coffrets for this series,

which tilt on being opened and thus display themselves to the best advantage, facilitates window dressing. A novelty for Christmas trade is a range of perfumed "Greetings" sachets, reasonably priced. Display material for various classes of the company's products is available.

Among other exhibitors in this section are:—THE AEROGRAPH Co., LTD. (de Vilbiss sprays); RIO PERFUMERY Co. (Rio hair cream); SHAVEX ZEE-KOL Co., LTD. (razors, blades, shaving creams, etc.).

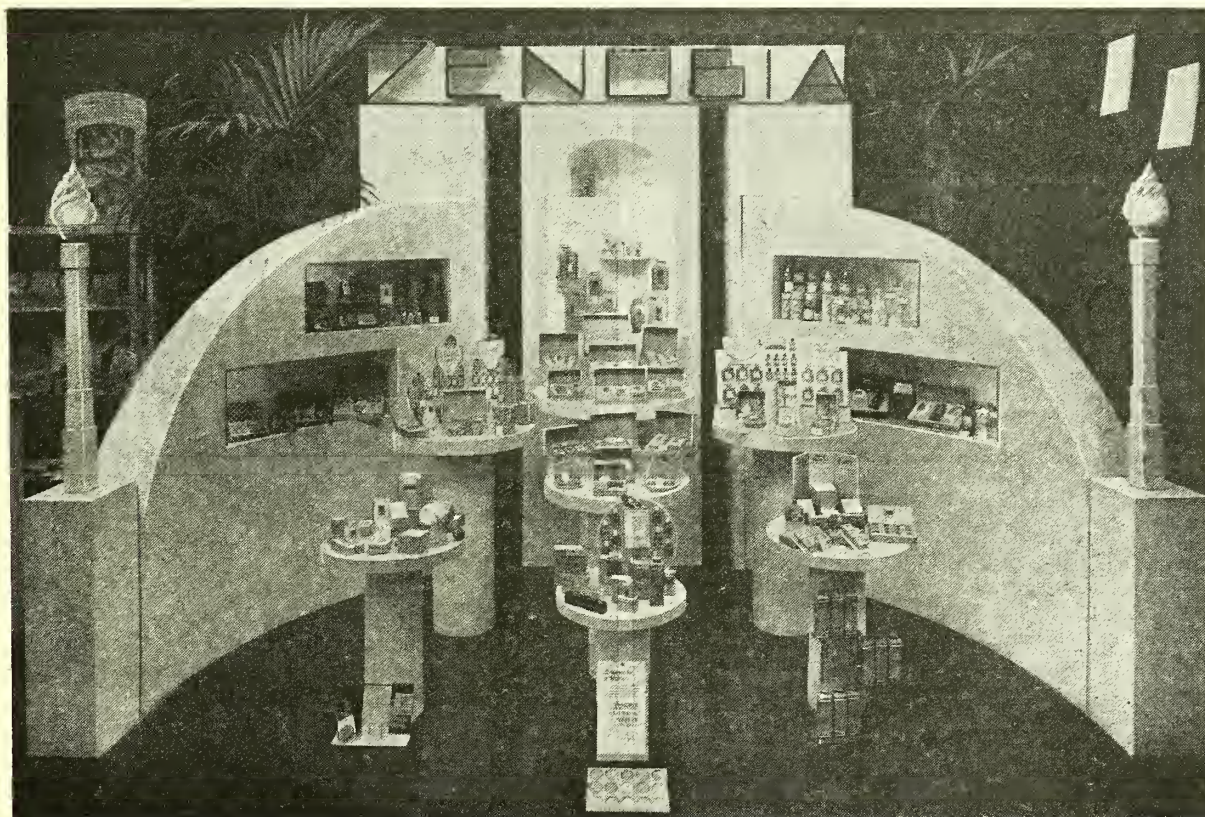
Miscellaneous

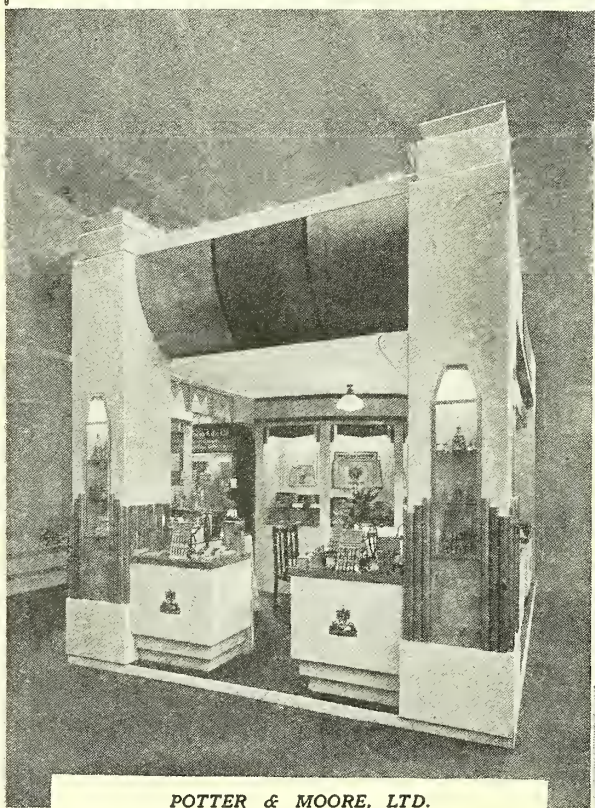
ARMSTRONG CORK Co., LTD., in the manufacture of corks, work to definite standards of quality, each size having a number and each grade a title. Consequently the company is able to offer to chemists a source of supply from which they can obtain, at all times, the same even qualities in good tapered corks. The company is also able to offer a wide range of bakelite caps for customers who have adopted this type of closure.

BEATSON, CLARK & Co., LTD., are showing a range of glassware covering practically every requirement of the retailer. Established in 1751, they have accumulated experience in the details of bottle-making that contribute to perfection, such as the accurate fitting of stoppers. Lettered bottles are a feature of this well-arranged display.

WILLIAM GARDNER & SONS (GLOUCESTER), LTD., show a selection of machinery suitable for manufacturing chemists' use, including their patent "Rapid" sifters and mixers, beauty-powder machines, patent spraying plant, and drying and grinding machinery. The specialised nature of many modern manufacturing processes renders imperative the aid of expert advice such as Messrs. Gardner are willing to give.

THE GENERAL OPTICAL Co. have the only display of its kind in the Exhibition, and it embraces a wide range of articles interest in many of which is not confined to the chemist-optician. For instance, chemists who do not touch optics will find such lines as barometers which indicate weather by colour changes specially attractive as





POTTER & MOORE, LTD.



Christmas gifts. The optical equipment shown includes furniture, trial cases, charts, instruments, spectacle frames, and such sundries as binoculars, magnifiers, and microscopes. The company is not only well equipped for every type of prescription and repair work, but welcomes an opportunity of being of service whenever possible.

INGRAM & ROYLE, LTD., have their usual comprehensive display of natural mineral waters, salts, and pastilles.

J. G. INGRAM & SON, LTD., devote their stand to a display of their range of enemas, hot-water bottles, whirling sprays and a large selection of surgical rubber goods. We were particularly interested in the patent stopper and reversible washer fitted to the Eclipse hot-water bottle. Prominently displayed also are the Ingram's Agrippa teat—now available in four popular shapes—and the Vesta soother.

THE INTERNATIONAL BOTTLE CO., LTD., show a wide range of bottles, from the ordinary chemists' types, such as medicals, panels, etc., to elegant perfumery and toilet containers. The company, as is well known, specialise in glassware suitable for the perfumery and toilet trade, and many original examples are shown. A range of high-quality opal jars is also being displayed.

J. C. KING, LTD., show a wide range of interior fittings, including dispensing screens, drug runs, wall cases, perfume cases and glass counters, as well as a large selection of stands for window display. In the centre of the exhibit is shown an attractive and useful revolving display stand suitable for counter or window. A fine range of Christmas decorative lines for window displays is also shown.

ROBINSON & SONS, LTD., have a well-displayed selection of cardboard boxes, cartons, outers and showcards. It is not easy to make these goods look attractive to the casual passer-by, but Messrs. Robinson & Sons have accomplished this feat; and their representatives at the stand are able to suggest the solution of any packing difficulty that the chemist may have in mind.

THE SCHOLL MANUFACTURING CO., LTD., draw special attention to Dr. Scholl's foot-comfort specialities. Our

representative was shown a sample of a new silent salesman which seems to be ideal for either counter or window display. The company shows also samples of rubberless hosiery for sufferers from varicose veins. A bonus offer is, we understand, in operation during the period of the exhibition.

EDWARD TAYLOR, LTD., have a comprehensive and well-arranged display of their medical and surgical plasters. Their stand is, incidentally, an object-lesson in the increasing care of the manufacturer in putting up every conceivable size of every product in regular demand. Rubber zinc oxide plaster (surgeons' quality), for example, is on view in spools of three different lengths in several widths from $\frac{1}{4}$ in. to $\frac{1}{2}$ in. Or zinc oxide plaster can be obtained spread on white wool felt in various textures and thicknesses. Other features of an interesting stand are Fastaid (emergency plaster dressing) Flexoplast (self-adhesive elastic bandage), Bull-Dog Boil Plaster, and numerous official and non-official plasters.

UNITED GLASS BOTTLE MANUFACTURERS, LTD., show a large variety of high-quality bottles, with many new designs. The "Washed and Sterilised Ready-to-Use Medicine Bottle Service" continues to be decidedly useful to the busy dispenser and sales, we understand, are increasing month by month. An attractive display of opal glassware, a new line, is also shown.

VISCOSE DEVELOPMENT CO., LTD., have an effective exhibit of perfumery and other bottles finished with Viskaps, the cleanness of which (in various colours) is its own recommendation. The company also manufacture mouldings of many kinds from bakelite and other synthetic resins.

Other stands worth a visit are those of THE APOLLINARIS CO., LTD. (mineral waters); CADBURY BROTHERS, LTD. (Bourn-Vita, chocolate, etc.); H. B. DORLING (druggists' sundries); THE ECONASIGN CO., LTD. (printing outfits); HINDERS, LTD. (Zix foot pads); LANG CLAYDEN, LTD. (printing press); RADIUM ELECTRIC, LTD. (Q-Ray radium electric compress); TEDSON, THOMLEY & CO. (Andy sleeping glove); G. H. ZEAL, LTD. (thermo-meters).

Sporting Events

THE annual meeting of the Ipswich Chemists' Hockey Club, presided over by Mr. S. J. Stearn, appointed the following officers for the ensuing year:—*President*, Mr. L. Piper; *Captain*, Mr. J. W. G. Butcher; *Vice-Captain*, Mr. E. Hammond; *Ladies' Captain*, Miss J. Abbott; *Vice-Captain*, Miss M. Croydon; *Secretary*, Mr. F. W. Wiggins, 34 Matthew's Street, Ipswich; *Committee*, the officers and Mr. D. Baddon. The secretary reported a substantial balance in hand and said he had secured Portman Road ground. It was decided to run three dances during the winter. Mr. P. R. Deck was thanked for his services as referee, and regret was expressed that Miss Greenwood, the retiring ladies' captain, is leaving Ipswich, and also Miss Collins and Miss Jeacock.

THE third open autumn meeting of the West Glamorgan Pharmacists' Golf Club was held at Swansea Bay Golf Club on September 14. The following are the results of the competition:—Open competition (1) H. B. Ganz, 81-17=64; (2) D. Rees, 80-14=66; (3) D. Meacock, 82-12=70; silver challenge cup presented by Evans Sons Lescher & Webb, Ltd., J. Murray, 86-15=71; runner-up (golf balls presented by H. Wynne Jones, president of the Club) T. Lewis, 86-15=71. The tie was decided on the first nine holes, the better card being returned by Mr. Murray. Other scores were as follows:—I. B. Jones (Skewen), 90-18=72; H. Jenkins (Treherbert), 91-19=72; J. W. Morrison (Swansea), 94-19=75; J. H. Hughes (Llandilo), 102-26=76; G. M. Thomas (Pontardawe), 98-20=78; T. J. Morgan (Pontardawe), 99-20=79.

A MEETING of the London Chemists' Golfing Society was held at Crews Hill golf course on September 21. Play was for the Kerfoot trophy and the Society's prize. The results were as follows:—Kerfoot trophy, P. G. Hunt, 90-18=72; Society's prize, J. E. Driver (Holloway), 88-14=74. Other scores included those of E. G. Smith, 84-9=75; W. Gray, 88-9=79; E. G.

Nice, 89-8=81; C. Maille, 91-10=81. The annual match, Captain v. President, took place at Finchley golf course on September 24. The contest was very keenly fought and resulted in a draw. Scores were as follows:—

Singles.			
J. Deas (Captain)	1	W. J. Beardsley (President) o	
G. F. Deeth	1	E. G. Smith	1
R. Collings	0	J. Y. Finlay	0
F. G. Wells	0	W. E. Swanston	1
R. A. Daniel	1	W. Clark	1
W. E. Cane	0	M. W. Carmichael	0
E. C. Pryce	1	I. Abernethy	1
H. Walden	1	H. R. Nightingale	0
H. Mountford	0	F. Bennett	0
		A. W. Daniel	1
	5		5
Foursomes.			
J. Deas and W. E. Cane ..	1	W. J. Beardsley and J. Abernethy	0
G. Deeth and F. G. Wells ..	$\frac{1}{2}$	J. Finlay and W. Clark ..	$\frac{1}{2}$
		F. Bennett and W. E. Swanston	1
H. Walden and R. Collings ..	0	M. W. Carmichael and A. W. Daniel	0
R. A. Daniel and H. Mountford	1	E. G. Smith and H. R. Nightingale	1
E. C. Pryce and Partner ..	0		
	$2\frac{1}{2}$		$2\frac{1}{2}$

Information Department

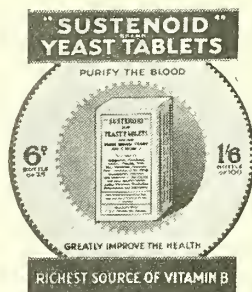
INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

S/23. Anabasin and methyl-anabasin (vermin-killers)	R/11. I.C.I. distemper vaccine
F/21. Arcion iron and malt	M/15. Oleo-potassium tartrate for gall-stones.
M/21. Barker's shaving papers	L/25. Protosol (sodium caseinate)
B/25. Clobene	S/18. Rex sun shields
D/22. "Metchny" for glands	

Trade Notes

PERSTIK is the name of the perspiration deodorant being supplied by Merchandising & Service Corporation, Ltd., 64 Hatton Garden, London, E.C.1. It is in the form of a stick and is packed in a moulded container, one dozen being mounted on a showcard.



THOMPSON & CAPPER WHOLESALE, LTD., Manesty Buildings, College Lane, Liverpool 1, have issued a striking new showcard to call attention to their Sustenoid yeast tablets. Measuring 10½ in. by 9 in. this display-aid, which is printed in yellow, orange and black, should be useful in promoting sales. It will be sent to chemists on request.

TOKALON, LTD., Chase Road, London, N.W.10, have prepared an illustrated booklet showing in actual colours the gift sets they have prepared for Christmas trade.



A NEW DEODORANT STICK.—The Butywave Co., 5 Rampayne Street, London, S.W.1, have placed on the market a new product called Deostick. This is intended as a perspiration deodorant and obviously in so portable a form has advantages over most preparations which have hitherto been used. The stick is nicely perfumed and enclosed in a black moulded case.

THREE MONKS ginger wine essence is a new product of A. de St. Dalmas & Co., Ltd., Junior Street, Leicester, who invite chemists to take advantage of an introductory offer for which a coupon appears elsewhere in this issue.

GLAXO LABORATORIES, 56 Osnaburgh Street, London, N.W.1, inform us that on September 29 several important revisions in connection with their products come into force. All prices of Ostomalt are being reduced. At the same time the discount is increased. The contents of phials of Adexolin Liquid and Ostelin Liquid are each being increased from 250 drops to 480 drops—nearly double the quantity and for the same price. (The concentration of these preparations remains unchanged.) The larger sizes of Adexolin Liquid and Ostelin Liquid are being reduced in price. Chemists are also reminded that the bonus offer in connection with Glucose-D display parcels ends on September 30.

J. C. GAMBLE & Co., LTD., 211 Blackfriars Road, London, S.E.1, have introduced a highly attractive stand for displaying Louis Philippe lipsticks, and a photograph of it is reproduced here. The back of the stand is of transparent ruby material, the lettering of metal with an oxidised silver finish, and the base of wood having an ebony appearance. Writing to us regarding this stand, Messrs. Gambles state: "Naturally with an expensive item such as this they are going to be distributed with the utmost discretion and will only go to those who take a very serious and live interest in Louis Philippe and whose sales indicate this happy state of affairs. They will not be sent out broadcast, and, further, there are but a limited number available."

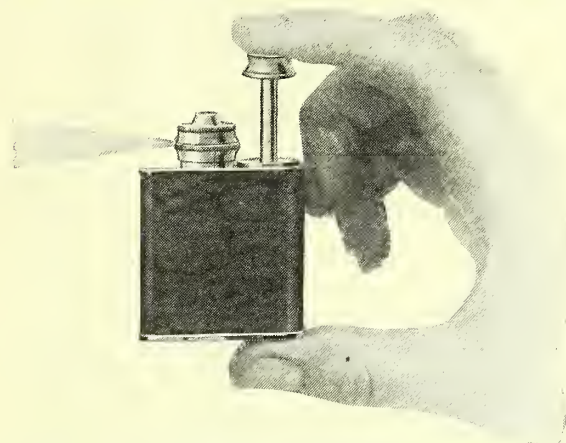


INEXPENSIVE EAU DE COLOGNE.—Blackaller & Pleasant, Ltd., Standard Works, Lawrence Road, Tottenham, London, N.15, are shortly to undertake national advertising in respect of New Era eau de Cologne. Special assorted Christmas parcels are available and particulars regarding them will be sent on application.



THE coffrets which are shown in the above illustration are those of Roger & Gallet (London), Ltd., 1 Lechmere Road, Willesden Green, London, N.W.2. The boxes are of embossed cardboard, and while devoid of design in the ordinary sense, are extremely attractive. The contents are, of course, the standard lines.

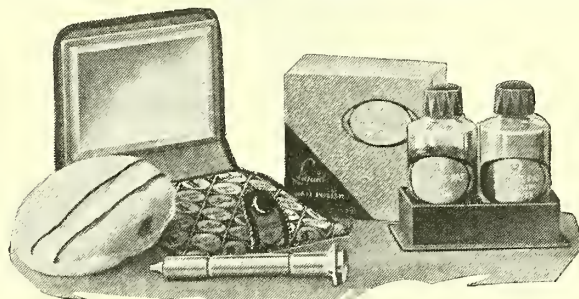
THE SPLENDOR Co., Pepper Street, Nottingham, are supplying a handbag spray which appears to be so constructed mechanically that it will last for ever. In size and appearance it resembles a small petrol cigarette



lighter. It is actuated by pressure as shown in the illustration. When not operating this lever can be depressed and locked simply by turning the head of the spray. It gives a mist-like spray in use and is leakproof when closed.

WILLIAM HAY, LTD., manufacturing chemists, 42 Walmsley Street, Hull, have issued a new edition of their illustrated price list of packed goods, toilet specialities, medical appliances and sundries.

GORDON GORDON (LONDON), LTD., 2 Alfred Place, Tottenham Court Road, London, W.C.1, the distributors of Princess Pat toilet preparations, have sent us an interesting novelty. As will be seen from the illustration, it comprises a pouch with a mirror, a powder puff and a "pencil," the last-named carrying a supply of face



powder, a small quantity of which is emitted on gently hitting the "lead" against the puff. This is an ingenious arrangement, it being almost impossible to spill the powder unintentionally, especially as ordinarily the "pencil" is carried in the puff, which in turn is enclosed in the bag. The other articles illustrated are nail polish and polish remover.

VETERINARY cod-liver oils are advertised in this issue by C. T. Bowring & Co., Ltd., 20 Castle Street, Liverpool.

SCRUBB'S AMMONIA.—R. W. Greeff & Co., Ltd., Thames House, Queen Street Place, London, E.C.4, are the distributors of Scrubb's cloudy ammonia.

Marriages

RUSHTON—SEYMOUR.—At Christ Church, Southport, on September 23, Norman Vincent Rushton, chemist and druggist, to Constance Barton Seymour.

SCOTT—WILLIS.—At Battersea District Register Office, London, S.W., on September 22, John R. Scott, Ph.C., M.P.S. (editorial staff, "The Pharmaceutical Journal," and formerly on the editorial staff of THE CHEMIST AND DRUGGIST), to Violet Louise, only daughter of Mr. and Mrs. W. Willis, Battersea Park, London, S.W.11.

SMITH—HILTON.—At All Saints' Church, Stand, on September 10, John Arnold Smith, M.P.S. (J. T. Smith & Son, chemists, Radcliffe), to Ethel Hilton.

Deaths

DENNEY.—In hospital at St. Leonards, on September 18, Mr. George Arnold Denney, chemist and druggist, aged twenty-nine.

McLAREN.—At Kirkcaldy Hospital, on September 24, the wife of Mr. James B. McLaren, pharmacist, Commercial Street, aged sixty-nine.

MARSHALL.—At Cheadle, Staffordshire, recently, Mr. Gervas Gilbert Marshall, Ph.C., High Street, aged sixty-two.

MILLS.—On September 23, after a brief illness, Harriet Ellen Mills, chemist and druggist, late of Fontenoy Road, Balham, London, S.W.12, aged fifty-three.

PETTINGER.—At Golders Green, London, N.W., on September 10, Mr. Elmer Pettinger, chemist and druggist, aged eighty-seven.

PITT.—At Brighton, on September 19, Mr. Charles Day Pitt, chemist and druggist, 101 Church Street. Mr. Pitt qualified in 1890.

Personalities

AMONG the candidates nominated for election to the Whitchurch (Shropshire) Urban Council are Mr. R. S. Rowland, chemist and druggist, and Mr. A. H. Pearce, retired chemist and druggist.

MR. W. ALLIS, J.P., chemist and druggist, Bilsby, Alford, Lincs (Allis, Bradshaw & Chapman, Ltd., chemists, Alford), celebrated his eightieth birthday on September 18. Mr. Allis passed the Minor examination in 1874, and two years later entered into partnership in the business of Robinson & Allis. His later activities have included farming. For six years he represented Alford on the Lindsey County Council, and was also for a considerable period a member of the Alford Urban District Council. He has been a county magistrate since 1918.

Coming Events

Monday, October 2

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin. Annual meeting.

Pharmaceutical Society of Northern Ireland, Chamber of Commerce, Belfast. Annual meeting.

Wednesday, October 4

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 3 p.m. Opening of the College and presentation of diplomas and prizes. The inaugural sessional address will be delivered by Professor Henry E. Armstrong, Ph.D., LL.D., D.Sc., F.R.S.

Thursday, October 5

National Association of Women Pharmacists, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Mr. J. P. Gilmour on "The History of British Pharmacy."

Manchester Pharmaceutical Association and Manchester, Salford and District Branch of the Pharmaceutical Society, Victoria Hotel, Deansgate, at 8.30 p.m. Speech day and presentation of prizes.

West Ham and Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society, Junior Section, Church Institute, 27 Romford Road, Stratford, at 7.30 p.m. Mr. G. Bernard Thompson (Chairman of the Examination and Education Committee of the Incorporated Sales Managers' Association) on "Salesmanship."

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TRADE MARK

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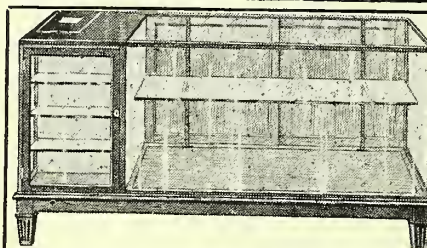
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LIQUID SURGICAL SOAP

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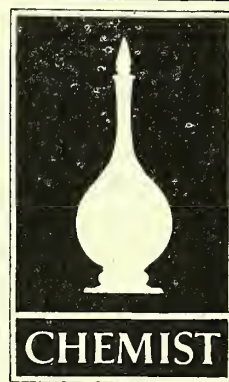
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Mahogany framing. 6 ft. long X 2 ft. wide X 3 ft. high. Top, front and end 1/2 in. drawn plate glass. The display section is 4 ft. 4 in. long with panelled back doors encasing 1 glass shelf. The interior is mirrored glass one end. At side is fitted a reliable cash till with showcase. front as shown. The showcase is 18 ins. wide and fitted with 3 glass shelves each 4 ins. deep. The case is mirror-lined at back and door is fitted lock.

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THE CHEMIST AND DRUGGIST

VOL. CXIX. SEPTEMBER 30, 1933 NO. 2799

Parrish's Food in Court

THE case at Tower Bridge Police Court, London, reported in THE CHEMIST AND DRUGGIST of September 9 (p. 338), raises once again the question of the administration of the Adulteration Acts in regard to the sale of drugs, and provides a typical illustration of the confusion of ideas prevalent in the legal profession as to the status of the British Pharmacopœia as a standard to be applied in such prosecutions. There are articles of which no standard is recognised except the B.P. standard. On the other hand there are many articles—Parrish's food is one of them—which the editors of the B.P. have adopted from other sources. By what authority, we may ask, are these new standards to supersede all other standards hitherto known? In commenting on the Parrish's food of the new Pharmacopœia in our issue of July 16, 1932 (p. 68), we remarked: "It is the B.P.C. syrup and too strong in acid; the syrup is a good one, but there are better syrups on the market." An appreciable number of people object to the taste of this B.P. preparation, containing as it does orange-flower water and a salt of iron: as a subscriber put it to us, his customers do not like a Parrish's food tasting of eau de Cologne.

The Purpose of the British Pharmacopœia

In order to get this matter into proper perspective, it is necessary to look back a little into the history of the B.P. It was originally published by the General Medical Council in virtue of authority to do so, given to them by the Medical Act, 1858. Section 54 of that statute says:—

"The General Council shall cause to be published under their direction a book containing a list of medicines and compounds, and the manner of preparing them, together with the true weights and measures by which they are to be prepared and mixed, and containing such other matter and things relating thereto as the General Council shall think fit, to be called 'The British Pharmacopœia'; and the General Council shall cause to be altered, amended, and re-published such Pharmacopœia as often as they shall deem it necessary."

Then by the Medical Council Act, 1862 (the statute which incorporated the Council under the title of "The General Council of Medical Education and Registration of the United Kingdom"), Section 3, the British Pharmacopœia is deemed to be published in substitution for the several pharmacopœias referred to in the preamble, previously in use in England, Scotland and Ireland respectively. Such was the origin of the Pharmacopœia. Nowhere is there to be found statutory authority for regarding it as a legal standard in proceedings for adulteration. Not only so, but there is the clearest possible evidence that the Legislature expressly avoided giving any

such recognition to the B.P. In the Pharmacy Act, 1868, Section 15, it is provided *inter alia* that—

"Any person who . . . shall compound any medicines of the British Pharmacopœia except according to the formularies of the said Pharmacopœia shall for every such offence be liable to pay a penalty or sum of five pounds, and the same may be used for, recovered, and dealt with in the matter provided by the Pharmacy Act for the recovery of penalties under that Act . . ."

There was a proposal before the Select Committee which considered the Sale of Food and Drugs Act, 1879, before it became law that this extract from the Pharmacy Act, 1868, should be incorporated in that statute; but the proposal was rejected. Moreover, similar proposals were made before the Select Committee of 1894-96 without success.

The British Pharmacopœia as Evidence

What, then, is the value of the B.P. as evidence of standards under the Food and Drugs (Adulteration) Act? Naturally the Courts will give great weight to any evidence derived from such a source; but it is not necessarily conclusive, though it is not too much to say that in many instances the Courts will regard the B.P. as a *prima-facie* standard for the drugs and preparations it contains. But even then this *prima-facie* presumption is (or should be) open to rebuttal. This was in fact laid down definitely in the case of Boots, Ltd., v. Cowling in 1903 (67 J.P. Reports, p. 195)—the soap liniment case in which a Divisional Court held that it was permissible to show that there were standards of soap liniment known to commerce other than that of the British Pharmacopœia. We suggest that the British Pharmacopœia should be regarded by all concerned in its proper light as a standard for the dispensing of medicines ordered in prescriptions: that was the true object for which it came into existence.

Dispensing and Counter Sale

We further suggest that when a chemist is asked over the counter for any article named in the B.P., but of which there are other qualities in frequent demand, he should put the question: "Do you wish to be supplied with the British Pharmacopœia kind or another kind?" and supply accordingly. There can then be no sale to the prejudice of the purchaser. The retailer is, of course, faced with the possibility that his customer may get one Parrish's food when it is prescribed by the doctor and another when it is ordered across the counter; and it is for him to consider, as a matter of policy, what is the best arrangement to adopt. But cases such as the Parrish's food case to which we have referred are not "adulteration" cases at all. They are unforeseen results of the policy of adopting articles in common demand under familiar names and putting them in the British Pharmacopœia with formulas differing from those which their original inventors considered satisfactory, and also from those which have been evolved by individual workers in the same field.

THE PROGRESS OF PHARMACY AND ALLIED SCIENCES

PHARMACY

Solutions for Spinal Analgesia.—The following formulas for solutions for producing spinal analgesia are taken from the new (twelfth) edition of the Pharmacopœia of the Manchester Royal Infirmary:—

BARKER'S SOLUTION

Stovaine	0.10 gm.
Glucose	0.10 gm.
Distilled water	to 2 c.c.

DUPLAS' SOLUTION

Stovaine	0.06 gm.
Caffeine	0.10 gm.
Sodium benzoate	0.10 gm.
Distilled water	to 2 c.c.

CHAPUT'S SOLUTION

Stovaine	0.10 gm.
Sodium chloride... ..	0.10 gm.
Distilled water	to 1 c.c.

KRÆNIG'S SOLUTION

Stovaine	0.08 gm.
Sodium chloride	0.0022 gm.
Distilled water	to 2 c.c.

CHAPUT'S ALCOHOL SOLUTION

Stovaine	0.08 gm.
Alcohol	0.2 c.c.
Distilled water	to 2 c.c.

TUFFIER'S SOLUTION

Stovaine	0.1 gm.
Sodium chloride... ..	0.1 gm.
Distilled water	to 1 c.c.

Danish Formulas.—The following preparations are included in the Danish Pharmacopœia, 8th edition (1933):—

BALSAMUM MENTHOLI COMPOSITUM.—MENTHOL BAL-SAM.—

Menthol	100 gm.
Camphor, in coarse powder	100 gm.
Methyl salicylate	250 gm.
White wax	180 gm.
Wool fat	370 gm.

Melt the white wax and wool fat on a water bath, add the camphor and, when solution has been effected, the menthol and methyl salicylate.

GUTTÆ ROSEÆ.—RED MORPHINE DROPS.—

Morphine hydrochloride	20 gm.
Citric acid	10 gm.
Alcohol (90 per cent.)	100 gm.
Solution of methyl red	10 gm.
Distilled water	860 gm.

LIQUOR KRESOLI SAPONATUS.—SOLUTION OF CRESOL WITH SOAP.—

Coconut oil acid	200 gm.
Solution of potassium hydroxide (40 per cent.)	130 gm.
Crude cresol	500 gm.
Distilled water	to 1000 gm.

Mix the coconut oil acid and solution of potassium hydroxide together to produce a homogeneous mass. On

the following day heat the mass on a water bath and add the crude cresol, complete the solution with distilled water to 1,000 gm.

MIXTURA BISMUTHI SUBSALICYLATIS.—BISMUTH MIX-TURE.—

Trituration of bismuth subsalicylate (1+4)	50 gm.
Mucilage of acacia... ..	145 gm.
Distilled water	105 gm.

Trituration of Bismuth Subsalsicylate (1+4) is prepared by mixing 200 gm. of bismuth subsalicylate with 700 gm. of distilled water in a mortar, then adding about 4 to 10 gm. of mucilage of acacia and completing with water to 1,000 gm.

MIXTURA CAMPHORATA.—CAMPHOR MIXTURE.—

Trituration of camphor (1+9)	80 gm.
Syrup of cherry	120 gm.
Distilled water	800 gm.

Trituration of Camphor is prepared by dissolving 100 gm. of camphor and 0.5 gm. of methyl *p*-oxybenzoate in 100 gm. of alcohol (90 per cent.) and adding, with constant agitation, 300 gm. of mucilage of acacia. To this mixture add mucilage of agar, prepared by heating 1 gm. of powdered agar and 500 gm. of distilled water; strain and allow to cool.

MUCILAGO GUMMI ARABICI.—MUCILAGE OF ACACIA.—

Acacia	1000 gm.
Methyl <i>p</i> -oxybenzoate	1.5 gm.
Alcohol (90 per cent.)	6.5 gm.
Distilled water	a sufficiency

Rinse the acacia with distilled water in a wide-mouthed flask, then add 1,800 gm. of distilled water and the solution of methyl *p*-oxybenzoate in the alcohol and complete with distilled water to 3,000 gm. Close the flask and lay it down, frequently turning it to effect solution of the acacia, then strain.

PHENOSALYLUM.—PHENOSALYL.—

Liquefied phenol (90 per cent.)	400 gm.
Citric acid	160 gm.
Lactic acid	50 gm.
Salicylic acid	40 gm.
Menthol	4 gm.
Oil of eucalyptus	1 gm.
Glycerin	240 gm.
Alcohol (90 per cent.)	105 gm.

Mix the first four ingredients and beat the mixture until a clear solution is obtained, then add the other ingredients, first dissolving the menthol in the alcohol.

SOLUTIO MORPHINI HYDROCHLORIDI PRO INJECTIONE.—SOLUTION OF MORPHINE FOR INJECTION.—

Morphine hydrochloride	50 gm.
Glycerin	500 gm.
Methyl <i>p</i> -oxybenzoate	1.5 gm.
Sterilised distilled water	to 1000 c.c.

Dissolve the methyl *p*-oxybenzoate in 500 gm. of sterilised distilled water by boiling, add the morphine hydrochloride and when it is dissolved, the glycerin. When cool, complete with sterilised distilled water to 1,000 c.c. and filter.

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TABLETTÆ.—EASTON TABLETS.—

Strychnine nitrate...	1.5 gm.
Quinine sulphate	50 gm.
Exsiccated ferrous sulphate	...	...	75 gm.
Milk sugar ...	...	...	37 gm.
Arrowroot, in powder	...	...	20 gm.
Agar, in powder	...	...	6.5 gm.
Absolute alcohol, about	...	...	42 gm.

Granulate the mass and dry the granules at ordinary temperature after passing through a sieve. Then add 10 gm. of talc and make into 1,000 tablets. The tablets are then coated with sandarac varnish, prepared by dissolving 1 part of sandarac in 4 parts of alcohol, and dried.

TETRAPONUM.—TETRAPON.—

Morphine hydrochloride ...	...	...	660 gm.
Narcotine hydrochloride ...	...	...	247.5 gm.
Papaverine hydrochloride	...	...	50 gm.
Codine hydrochloride ...	...	...	40 gm.
Chrysoidine ...	...	...	2.5 gm.

THEOBROMINO CALCII ACETAS.—THEOBROMINE-CALCIUM ACETATE.—

Calcium acetate ...	...	...	600 gm.
Theobromine, in fine powder	...	...	400 gm.

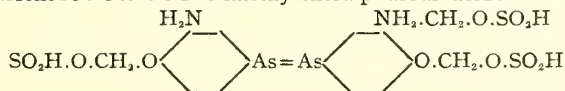
UNGVENTUM BISMUTHI SUBNITRATIS.—BISMUTH OINTMENT.—

Zinc oxide ...	...	...	50 gm.
Bismuth subnitrate ...	...	...	100 gm.
Wool fat ...	...	...	120 gm.
Olive oil ...	...	...	180 gm.
Solution of calcium hydroxide	...	...	550 gm.

Mix the zinc oxide and bismuth subnitrate with the wool fat and olive oil, previously mixed, and then add the solution of calcium hydroxide in small portions.

PHARMACEUTICAL CHEMISTRY

Constitution of Sulpharsphenamine.—W. J. C. Dyke and H. King ("Journal of the Chemical Society," August, 1933, 1003) give chemical data showing that commercial sulpharsphenamine corresponds approximately to a sodium salt of 3:3'-diamino-4:4'-dihydroxyarsenobenzene-OO'-N-trimethylenesulphurous acid:—



The novelty is the attachment of a methylenesulphite group to a phenolic group. There was no appreciable amount of free sodium hydrogen sulphite or sodium formaldehyde bisulphite present. Hitherto sulpharsphenamine has been regarded as a mixture of 3:3'-diamino-4:4'-dihydroxyarsenobenzene-NN'-dimethylenesulphite (as in the 1932 B.P.) with varying proportions of free sodium formaldehyde bisulphite. Elvove's method of oxidation by iodine in alkaline solution distinguishes between the methylenesulphite groups attached to the phenolic groups and that attached to the amino group, and forms the basis of the above assumption.

AGRICULTURAL CHEMISTRY

Kerosene Extraction of Pyrethrum Powder.—H. H. Richardson ("Journal of Economic Entomology," 26, 252) has investigated the effectiveness of extraction by kerosene of pyrethrum powder. Assay was based upon comparative toxicities of kerosene extracts to house flies. It was found that some 80 per cent. of total pyrethrins are removed from 45-mesh powders and approximately 90 per cent. from 200-mesh samples.

Control of Raspberry Beetle.—H. G. H. Kearns and C. L. Walton ("Journal of Pomology and Horticultural Science," 11, 1, 39 and 77) find that barium silicofluoride spray is quite effective in controlling the depredations of the beetle (*Byturus tormentosus*, Fahr.) causing damage to crops of raspberries and loganberries.

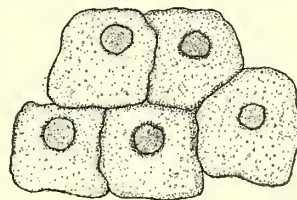
Derris wash (0.004 per cent. rotenone) killed almost all the larvæ in two applications, but pyrethrum wash (0.25 per cent.) was inadequate in controlling the pest. W. Steer, in the same issue, reports control by a single derris spray in late June, and also that late applications of nicotine wash check the pest on raspberries. Data in regard to cost of spraying are provided.

Injury to Glasshouse Plants by Sulphur Disinfection.—W. H. Read and O. B. Orchard ("Journal of the Ministry of Agriculture," 39, 1085) find that the injury to chrysanthemum plants, subsequent to disinfecting vacant glasshouses by burning sulphur, is due to zinc sulphate formed on overhead galvanised wires. Direct application shows that visible injury results when the strength of zinc sulphate in solution exceeds 1 in 300. Confirmation of the fact that the scorching and wilting of plants is due to drip of condensation water containing zinc sulphate from wires or painted surface was obtained by substituting lead or barium paint or keeping the atmosphere dry, when no injury was experienced. The possibility of such damage in sulphur-disinfected greenhouses can be greatly minimised by thoroughly hosing with water at frequent intervals. It is preferable to substitute naphthalene or formaldehyde as fumigant in place of sulphur. On the other hand, dusting with sulphur is not detrimental, as burning of the sulphur is essential to formation of zinc sulphate.

BIOLOGICAL CHEMISTRY

Vitamin-C Distribution in Adrenal Gland Tissue.—

G. Bourne ("Nature," 3320, 874) has obtained cytological preparations showing the distribution of vitamin C by suspending pieces of adrenal gland in the vapour of formaldehyde (obtained by heating paraformaldehyde). This overcomes the difficulty created by the solubility of vitamin C making it impossible to use the customary fixatives.



Impregnation with silver nitrate provided the best method of demonstrating vitamin C distribution in adrenal tissue. Fixation by formaldehyde vapour proceeds rapidly. Good, though erratic, results are obtained on impregnation with silver nitrate solution (2.75 per cent.) for twenty-four hours. In mouse adrenal the cortex first stains an intense black, the medulla also becoming black after two or three hours. The illustration shows the arrangement of the granules within cortical cells. The nucleus is practically obscured by the mass of granules surrounding it. A number of granules are scattered throughout the cytoplasm, and aggregations border the outer zone thereof. The distribution exhibits the usual tendency towards surface tension aggregation at membrane interfaces. The cells of the medulla show more even impregnation without the tendency to aggregation present in cortical cells. No blackening occurred in control experiments in which soaking of adrenal tissue in water for an hour allowed the vitamin C (ascorbic acid) to dissolve out and remove the factor reducing silver nitrate.

Isomeric Forms of Carotene and of Vitamin A.—

P. Karrer and his co-workers in a communication to "Nature" (3322, 26) state that a complete separation of carotene into α and β forms has been effected by adsorption upon calcium hydroxide. The pure α -carotene has a (corrected) melting point of 187° C., and shows with antimony trichloride solution a characteristic absorption band at 542 m μ . The carotene band at 590 m μ is distinctive of the β -form. Vitamin-A concentrate can be separated in similar manner into two components. The main portion showing the 328 m μ absorption is designated as the β -form, the α -fraction

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comprising only a few per cent. giving a band at 270 μ . After purification by adsorption on calcium hydroxide, the β -form of vitamin A gives with antimony trichloride solution an absorption band at 620 μ . The α -form of vitamin A yields an antimony blue band at 580 μ , initially, but very soon the 620 μ band also appears, probably in consequence of isomerisation. Analysis of the β -fraction agrees with the formula $C_{20}H_{30}O$, proposed for vitamin A, and on ozonisation yields geronic acid.

Vitamin-A Content of Cod-Liver Oil Co-related with Age of Cod.—N. L. Macpherson of the Newfoundland Fisheries Research Commission reports in a letter to "Nature" (3322, 26) that the major influence in variation of vitamin-A content of cod-liver oil is the age of the fish, and that the feeding conditions and oiliness of liver are relatively of minor significance. It has been possible to establish a definite relationship between vitamin-A concentration, a colour of liver oil, and age of cod. The extreme values found so far for Newfoundland (Grand Bank) cod are as follows:—

Vitamin A value: Lovibond blue units (10 per cent. dil.)	Colour of oil measured in 1 cm. cell		Length of cod in cm.	Approx. age of cod in years
	Yellow	Red		
2.5	0.6	0.1	42	4
2.5	0.6	0.1	52	5
21.0	2.2	0.3	105	12
24.5	2.4	0.2	117	13

Thus young cod yield liver oils of pale colour and low vitamin content, while old cod give richly pigmented oils of high vitamin value. The differences between average commercial samples of east-coast and west-coast oils confirm this conclusion. The west-coast cod-liver oils are twice as potent as those from east-coast fish, because the fish of equal size from the west coast of Newfoundland are older owing to slower growth rate. Again, a 78 cm. cod from the North Sea in Europe is five years old, whereas a 78 cm. Grand Bank (Newfoundland) cod is eight or nine years old. The higher vitamin content of the oils from older fish thus represents an accumulation of vitamin with the passage of years.

Carbohydrate Metabolism.—O. Meyerhof ("Nature," 3331, 337, and 3332, 373) reviews recent advances in knowledge regarding the successive stages in the chemical breakdown of carbohydrate in the metabolism of muscle and in alcoholic fermentation. The esterification of phosphoric acid with a hexose is the first step in anaerobic carbohydrate oxidation. Robinson ester and the lactacidogen of Embden are identical for practical purposes, and consist of a mixture of three-quarters aldose monophosphoric acid and one-quarter ketose phosphoric acid. The addition of muscle extract to fructose monophosphoric ester (Neuberg ester) results in the formation of an equilibrium mixture consisting of 70 per cent. aldose phosphoric acid and 30 per cent. unchanged fructose phosphoric acid. Such conversion in both directions plays an important part in carbohydrate metabolism. The formulation of the scheme in Table I is the result of the discovery by Embden that glyceric-acid-monophosphoric acid (abbreviated phospho-glyceric acid) is transformed by minced muscle into pyruvic acid:—

TABLE I

A. Fructosediphosphoric acid	= 1 Glycericaldehydephosphoric acid + 1 Dioxycetonephosphoric acid
B. 1 Glycericaldehydephosphoric acid + 1 Dioxycetonephosphoric acid	= 1 α -Glycero-phosphoric acid + 1 Phosphoglyceric acid
C. 1 Phosphoglyceric acid	= 1 Pyruvic acid + 1 Phosphoric acid
D. 1 Pyruvic acid + 1 α -Glycero-phosphoric acid	= 1 Lactic acid + 1 Triose phosphoric acid

If the above scheme is correct, neither the addition of

pyruvic acid alone, nor of α -glycero-phosphoric acid alone, to carbohydrate-free muscle extract should lead to lactic acid production. On the other hand, addition of both at the same time should cause lactic acid formation wherein twice as much lactic acid is produced as pyruvic acid disappears. This is actually the case. The pyruvic acid and glycero-phosphoric acid do not react directly to form two molecules of lactic acid, but instead form lactic acid and a triose phosphoric acid, the latter then rearranging to phospho-glyceric acid and glycero-phosphoric acid. The former then yields pyruvic acid, which again reacts with the latter until the whole has been converted to lactic acid. The results of other researches are gathered together in the fermentation scheme shown in Table 2.

TABLE 2

INITIAL PHASE		
A. 1 Hexose di-phosphoric acid	= 4 Triose phosphoric acid	= 2 α -Glycero-phosphoric acid
+ 1 Glucose		+ 2 Phosphoglyceric acid
+ 2 Phosphoric acid		
B. 2 Phosphoglyceric acid	= 2 Pyruvic acid	= 2 Acetaldehyde
	+ 2 Phosphoric acid	+ 2 Carbon dioxide
		+ 2 Phosphoric acid
STATIONARY CONDITION		
C. 2 Acetaldehyde	= 2 Triose phosphoric acid	= 2 Alcohol
+ 1 Glucose		+ 2 Phosphoglyceric acid
+ 2 Phosphoric acid	+ 2 Acetaldehyde	

This agrees with all known facts. It explains the esterification of phosphates and the characteristic rôle of hexose di-phosphoric acid, also the part played by acetaldehyde in determining the initial period by changing the system altogether. The difference between lactic acid production and alcoholic fermentation is to be found in the fate of the pyruvic acid. While pyruvic acid in muscle extract is reduced to lactic acid by the glycero-phosphoric acid, in yeast this is split up into carbon dioxide and acetaldehyde, which acetaldehyde is then reduced. This circumstance compels one equation to be set up for the initial period and another for the stationary condition, in which induction and rising fermentation are not present in lactic acid formation.

BACTERIOLOGY

Bactericidal Efficiency of Chlorocresol and Chloroxylenol.—N. F. Rapps ("Chemistry and Industry," 52, 24, 1751) contradicts the unduly high phenol coefficients (40 to 140) which have been claimed for chloro-*m*-cresol. A sample for which a high coefficient had been claimed had a coefficient of 13.3 for a solution in water and 24.3 for a soap solution. Trade literature reports a coefficient of 140 for a solution of 1 part by weight of chloro-*m*-cresol and 0.5 part of 35-per-cent. caustic soda, but the coefficient found was 8.1. Further tests showed that a large excess of alkali enhanced germicidal power but removed practically all the bactericidal activity attributable to chlorocresol. Chloroxylenol in water and soap solution gave coefficients of 38 and 62, which are nearly twice those for chlorocresol. The great insolubility in water and the consequent aids to dissolution reduce its activity and make such solutions comparable in efficiency with chlorocresol solutions. For practical purposes the latter substance is more generally applicable.

BOTANY

Viability of Seeds.—J. H. Turner summarises, in the Kew "Bulletin of Miscellaneous Information" (1933, 6, 257), the evidence relating to the viability of seeds. Interesting data are given, together with a bibliography of the subject. A. J. Ewart is quoted as stating that however dry seeds may be they cannot indefinitely prolong their vitality. The alleged viability of ancient Egyptian wheat is accounted for by the fact that for hundreds of years the natives of Egypt have used the halls of tombs for wheat and barley obtained from Syria. Becquerel, after testing the germination of seeds preserved in the Herbarium of the Natural History

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Museum of Paris, found that the oldest viable seeds were those of *Cassia tricapularis*, found to germinate after eighty-seven years.

Growth Substance (Auxin) in Plants.—Professor F. A. F. C. Went, in a communication to the British Association at Leicester on September 12, called attention to the recent advances in the study of plant growth substance (auxin). Van Overbeek, working with *Raphanus* at Utrecht, showed that auxin is produced in the cotyledons under the influence of light, and that light diminishes the sensibility of the cells to growth substance. Lateral illumination causes deviation of auxin to the shaded side. The above phenomena together explain phototropic curvatures of the seedlings. Dijkman has been able to prove that displacement of the hypocotyls of *Lupinus* seedlings from the vertical results in flow of auxin to the lower side with a negative geotropic curvature consequent upon increased growth. The amount of curvature in both instances is equal to that deduced from the distribution of growth substance.

Chemistry of Flowers.—Addressing the Chemical Section of the British Association at Leicester on September 7, Professor R. Robinson (president of the Section) devoted his presidential address to "Natural Colouring Matters and their Analogues." Professor Robinson said it was not generally realised that the ready availability of artificial colouring matters suitable for every kind of tinctorial purpose, from boot polish to finger-nails, is a comparatively recent development. Dealing with the chemistry of the red, blue and violet colouring matters of flowers, Professor Robinson said that the central feature of these pigments was their relation to the group of substances known as anthocyanins, which formed salts with both acids and bases. Thus the violet pigment cyanin, which could be isolated from blue cornflowers, red roses, deep red dahlias, formed a blue sodium salt and a red hydrochloride. It had been assumed that the colour depended on the acidity or otherwise of the cell sap. But a blue filtered extract from the blue cornflower made with distilled water was found to be sufficiently acid to turn blue litmus red. The principal factors affecting the colour of flowers were (a) the nature and concentration of the anthocyanins and other substances present; (b) the physical state of the anthocyanin in solution, which depended partly on the acid or alkaline balance in the fluid, and the presence or absence of colloids; (c) the presence or absence of other pigments; and (d) possibly the effect of traces of iron and other metals.

ESSENTIAL OILS

Oil of *Chenopodium Ambrosioides*.—According to Dafut and Capesius ("Pharmazeutische Presse," 1933, 69) the fruit of *Chenopodium Ambrosioides*, Linn., contain quite as much essential oil as that of *C. Ambrosioides* var. *Anthelminthicum*, Gray. The ascaridol content of the oil lies between 65 and 73 per cent.

Callitris Oil.—Trikojus and White ("Journal of the Proceedings of the Royal Society of New South Wales," 1933, 66, 284) find that callitrol, extracted from the wood oil of *Callitris glauca*, boils at 117.9° at 6 mm., and has a specific rotation -6.6°. It forms a methyl derivative boiling at 86° at 1 mm. By reduction with hydrogen and platinum black it is reduced to dihydrocallitrol boiling at 113-115° at 0.5 mm, and yields an anilide melting at 90-91°.

American Geranium Oil.—Lowman ("American Perfumer," 28, 185) describes the characters of essential oil of geranium distilled from the leaves, etc., of the plant grown in Florida. The oils gave the following range of figures:—S.g. at 15.5°, 0.8956-0.9011; refractive index at 20°, 1.4626-1.4627; optical rotation, -5° 25' +0-7°; acid value, 9 to 10.5; esters as geranyl tiglate, 25.3 to 26.55 per cent.; free alcohols as geraniol, 47 to 57.8 per

cent.; combined alcohols as geraniol, 16.5 to 17.3 per cent.; total alcohols as geraniol, 64.3 to 68.3 per cent.

The Flowers of *Cheimonanthus Fragrans*.—Louveau ("Revue Marques Parfumerie Savonnaise," 9, 531, 573, 622) has examined the odoriferous constituents of these flowers. By enfleurage an oil of s.g. 0.9243 at 15° was obtained, with specific rotation +1° 45'; refractive index 1.4714; acid value 85.1; ester value 90.3; and ester value after acetylation 198.1. About 6 per cent. of phenyl-ethyl alcohol was present, partly free and partly in the form of esters. There were also identified linalol, terpineol, farnesol, dicyclic aldehyde, terpenes, sesquiterpenes (cadinene?), indole and acetamide.

Essential Oil of *Cynomarathrum Nuttallii*.—E. K. Nelson ("Journal of the American Chemical Society," 1933, 3400) has investigated the essential oil and resin of this umbelliferous plant, which occurs from the plains to the spruce belt in western Nebraska, Wyoming, Utah, and New Mexico. (It is also known as *Peucedanum graveolens*, Watson.) The roots have a strong and rather pleasant aromatic odour. The material for this investigation was collected in Utah. The roots, on steam distillation, yielded 6 per cent. of essential oil. Extraction of the residual material with alcohol gave about 15 per cent. of a red balsamic resinous material. The essential oil, which has an odour resembling turpentine, has s.g. 0.869 at 20°, and optical rotation +22.6°. From 60 c.c., 57 c.c. was distilled at 6 mm. pressure under 48°, and 3 c.c. at 90-105°. The terpene fraction was rectified over sodium and then distilled at 164-166° at normal pressure. Its s.g. was 0.8654 at 20°, specific rotation +28.59°, and refractive index 1.4739 at 20°. The author concludes that this essential oil consists as to about 95 per cent. of *dextro*- β -pinene, which he states has only previously been detected as occurring naturally in the oil from *Forula galbaniflua*. The odour of the small amount of the higher boiling fraction suggested the presence of geraniol. The resinous matter was not very fully examined. It is a mixture of neutral and acid resins.

HYGIENE

Lead in Water Supply.—L. S. P. Davidson and others have carried out a lengthy investigation ("Lancet," 5737, 374) suggested by cases of plumbism admitted to Aberdeen Royal Infirmary. The matters dealt with included the types of water supply, the plumbosolvency of the water, and the lead content. A clinical and hematological investigation of the individuals using the water and a quantitative chemical investigation of their urines and faeces for lead were made. The drinking water was found to have a lead content beyond the accepted safety limit of 0.05 part per 100,000 in 108 houses out of 160. Quantitative investigation for lead in the urines and faeces of eighty persons showed excessive amounts in seventy-four cases. Punctate basophilia was found in thirty-three cases out of fifty-nine. Eight persons were found to be suffering from severe plumbism, and fifty-one out of 102 had symptoms suggestive of it in a mild degree. Certain measures to eliminate the contamination of these water supplies are discussed by the authors.

MEDICINE

Coca's Alkaline Extracting Fluid.—The following formula is quoted by "The Journal of the American Medical Association" (101, 8, 626) from Coca's book "Asthma and Hay Fever" as a satisfactory extracting fluid for pollens:—Sodium chloride, 0.5 per cent.; sodium bicarbonate, 0.275 per cent.; phenol, 0.4 per cent., in distilled water. Coca stresses the importance of carbon dioxide being passed through this fluid until phenol-

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phthalein added to a sample of it remains colourless. It is kept in tightly stoppered bottles. Some dispense with the carbon dioxide. The mixture is sterilised by running through a Berkefeld or Seitz filter. To test for sterility, three cultures are made.

Connective Tissue Extracts for Cancer.—H. S. Baker gives details ("Lancet," 5742, 643) of a method of treating inoperable cancer which has given encouraging results. The author is of opinion that the excessive growth of cells is controlled by substances secreted in the connective tissue of their area. It is not an unreasonable postulate, he remarks, that a factor exists to inhibit the tendency of living cells to reproduce themselves indefinitely, and his work is based on the view that this factor is a substance secreted locally outside the blood stream and discharged into the lymph. If a cell, or group of cells, be deprived of adequate inhibition—e.g., by lymph stasis or actual failure of secretion—it will reassert its fundamental tendency towards unlimited growth. It is not impossible that the inhibitory factor may be an enzyme, and for various reasons it is considered that its major function is lipolytic. It is secreted in the connective tissues and functions to the best advantage in the area of its secretion. In normal healthy persons it is destroyed in the lymphatic glands, and eventually, if it escapes this, in the blood stream. Treatment is designed to introduce this essential substance into the carcinoma by the intravenous administration of an extract of connective tissue derived from an area, in the pig or cow, corresponding to that of the primary growth in the patient. Details of the technique of preparation (in which Research Products, Ltd., assisted) are given, together with particulars of thirteen cases in which the extracts were used.

Hæmopoietin is the name suggested by J. F. Wilkinson and L. Klein for the anti-anæmic substance of hog's stomach. These authors ("Biochemical Journal," 27, 2, 600) have isolated a product which is hæmopoietically active and relatively pepsin-free. The method adopted consists in the expression of juice from finely minced fresh tissue of hog's stomach admixed with sand, the yield of press juice being between 570 and 670 c.c. per kilogram of fresh tissue ground with an equal weight of Calais sand and subjected to a pressure of 2-2.5 tons per sq. in. The press juice is a reddish, opalescent, and rather viscid liquid which is very active in the treatment of pernicious anæmia. Precipitation of the press juice with alcohol (of about 80 per cent. strength) gives a product (P_2) which contains the whole of the hæmopoietic and peptic activity of the juice. This gives excellent responses in doses of 5 gm. daily in the treatment of pernicious anæmia, 1 gm. being equivalent to 30 c.c. of press juice and 50 gm. of stomach tissue. The pepsin can be removed by isoelectric precipitation with hydrochloric acid (at pH 4.2). The final product (P_2 (ii)) is a pale buff powder giving the usual protein tests and almost insoluble in water. It is free from odour and taste. Though this product is almost free from pepsin, it does not appear to possess hæmopoietic activity in excess of the P_2 preparation, probably owing to inactivation of the very sensitive hæmopoietin.—J. F. Wilkinson ("Proceedings of the Royal Society of Medicine," 26, 10, 1341) reviews the clinical testing for hæmopoietic activity, and points out that certain rigid criteria must obtain. In particular it is essential that control methods ensure that the case gives normal response. During a control period of from seven to ten days the reticulocytes should remain within normal limits, and the red cell count and hæmoglobin pictures should not show any improvement. If the product is hæmopoietically active, its administration results in reticulocytosis within a few days, followed by an increase in red cell count and in hæmoglobin percentage. The objective is to eliminate error due to spontaneous remission on the part of the patient. Tests on desiccated preparations of ox stomach and of sheep's stomach

showed that these were devoid of hæmopoietic activity.—In "The Lancet" (5742, 629), Messrs. Wilkinson and Klein contrast hæmopoietin with the active anti-anæmic principle in liver. When stomach fractions containing the thermolabile hæmopoietin are incubated with beef or stomach muscle, hæmopoietically active material is obtained which is relatively heat-resistant. These experiments are considered to effect *in vitro* the synthesis of a substance similar to or identical with the liver active principle. It is therefore considered that the enzyme hæmopoietin by acting on some substance present in protein food—e.g., beef—may produce *in vivo* a substance which is stored as the active principle found in liver until it is required for red cell formation.

Acid Treatment in Hay Fever.—H. Beckman gives ("Lancet," 5728, 1227) statistics of favourable results obtained by treating hay fever with the following mixture:—Nitro-hydrochloric acid (full strength) 3ivss.; distilled water to 3iv. The patient is directed to take one teaspoonful of this in two-thirds of a glass of water, followed by a similar portion of water, after each meal and upon retiring (as near midnight as possible). The nitro-hydrochloric acid used by the author is that of the U.S. formulary, consisting of 18 parts of nitric acid to which is added hydrochloric acid to make 100 parts. Storage should be in brown bottles, and only a small quantity should be made at one time. The midnight dose is very important; when it is omitted the patient will almost invariably have early morning symptoms. The author points out that treatment of hay fever by nitro-hydrochloric acid was advocated in 1893.

Amidopyrine in Measles.—M. P. Borovsky and F. Steigmain have tested the alleged specificity of amidopyrine in cases of measles ("Journal of the American Medical Association," 100, 23, 1859) with negative results. The authors' summary is as follows:—(1) Of 194 patients with measles . . . about half received the amidopyrine treatment, while the remainder did not. (2) The morbidity, duration of fever, and complications were about equal in the two groups. (3) Amidopyrine did not prevent the appearance of the rash. . . . (4) Complications occurred with equal frequency and severity in the two groups. (5) No marked drop of temperature was noted in the amidopyrine group as compared with the non-amidopyrine group, although a greater number of those in the amidopyrine group became afebrile on the second day. (6) Amidopyrine is not a specific for measles. It is a valuable antipyretic adjuvant in the treatment of the disease. . . .

Death Following Administration of Bismuth Subnitrate.—H. E. Roe describes ("Journal of the American Medical Association," 101, 5, 352) a case in which an infant a month old was admitted to hospital suffering from diarrhoea, was given 10-gr. doses of bismuth subnitrate every two hours, amounting in all to 190 gr., and died sixty hours after the administration of the first dose. A *post-mortem* examination showed that the blood was of dark brown colour typical of methæmoglobin, for which substance it gave a positive spectroscopic reaction. While the intestinal intoxication, otitis media and terminal hypostatic bronchopneumonia may all have been contributing factors in the fatal outcome, the methæmoglobin formation was apparently the determining factor. (The author reviews the facts of the case as evidence of his belief.) Support of the statement lies in the fact that ingested nitrates are supposedly reduced to nitrites by the putrefactive bacteria of the intestine. The nitrites are absorbed by the blood, and in some way convert hæmoglobin into methæmoglobin.

Evipan Anæsthesia.—R. Jarman and A. L. Abel give details ("Lancet," 5731, 18) of trials with evipan in 100 cases. Evipan-sodium is the sodium salt of N-methyl-C-C-cyclo-hexenyl-methyl barbituric acid, which dissolves freely in water, though only solutions

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in non-aqueous organic vehicles are stable. The authors' conclusions are summarised as follows:—"In our considered opinion evipan is a useful addition to the surgical armamentarium, provided reasonable precautions be taken. The drug should never be used single-handed, since it is essential that the patient's airway should be continuously maintained. Moreover, in case of respiratory embarrassment we always have carbon dioxide and oxygen readily available, together with coramine and lobeline. Evipan is not, we believe, suitable for feeble or toxæmic patients, or those with cardiac or respiratory failure. As there is evidence of its detoxication by the liver, it should not be given to patients with jaundice. Until the drug has been more widely used, we feel that it should be administered only by an expert anesthetist who will not only be able to maintain the airway and apply restoratives if necessary, but will also be ready to give a general anæsthetic should the operation take longer than is expected."

Procedure in Strychnine Poisoning.—S. Stalberg and H. S. Davidson give particulars of the treatment, with recovery ("Journal of the American Medical Association," 101, 2, 102), of a patient who had taken approximately 1.75 gr. of strychnine. The case was marked by unusual delay in the appearance of convulsions (forty-nine hours after ingestion) and by the length of the period during which convulsions continued (five and a half days). In reviewing the case the authors remark that the barbiturates, especially sodium amytal, intravenously, have opened up a new and hopeful chapter in the treatment of strychnine poisoning. The great usefulness of these drugs consists in the fact that they are anticonvulsant and detoxifying motor depressants, that they can be given intravenously in just sufficient amount to control the convulsions, and that strychnine itself is an antidote to them. The dose is $7\frac{1}{2}$ gr., smaller or larger doses to be used as required and repeated with each convulsion. In severe cases, when repeated injections of the barbiturates are required, they may be supplemented with tribrom-ethanol anesthesia. In this case the authors gave four rectal injections, each of 4 gm. in 6 oz. of water. Giving a chemical antidote, such as tannic acid, and lavage of the stomach are also important. Chloral and bromides may also be given.

Treatment of Cyanide Poisoning.—J. C. Geiger ("Journal of the American Medical Association," 101, 4, 269) has obtained successful results, in cases of cyanide poisoning, by the use of a 1-per-cent. solution of methylene blue intravenously; he finds that up to 100 c.c. of this solution can be administered within half an hour without untoward symptoms. In another issue of the same journal, however (100, 24, 1920), K. K. Chen and others find, as the result of experiments with animals, that amyl nitrite is more efficient than methylene blue. It is suggested that a rational procedure in managing a case of cyanide poisoning might consist of (1) immediate administration of amyl nitrite for from fifteen to thirty seconds, to be repeated every three to five minutes if the patient is unconscious and rigid; (2) gastric lavage at once if the poison is taken by mouth—preferably done by another physician for division of labour; (3) artificial respiration by hands in case of gasping while the administration of amyl nitrite is continued; (4) frequent counting of pulse and respiratory rates; (5) continuous observation of the patient for at least the first twenty-four hours. During convulsions, the inhalation of amyl nitrite may be prolonged to a minute or slightly longer. When respiration and heart rates show little or no abnormality, the administration of amyl nitrite should be reduced to once in several hours. To combat severe headaches that may occur, an analgesic with no depressive action on respiration may be employed.

Diagnosis of Addison's Disease.—G. A. Harrop and others discuss, in a lengthy monograph ("Journal of the American Medical Association," 100, 23, 1850), the

diagnosis and treatment of Addison's disease. During the remissions of the disease the authors insist on patients avoiding undue exertion and protecting themselves against exposure to infection. They recommend diets as high in caloric value as possible, liberally salted, and, if necessary, they give several grams of additional salt in capsule form. In addition, they advise the use of from 1 to 3 oz. of cottonseed oil daily. The latter treatment is based on the fact that the dosage of cortical hormone required to maintain suprarenalctomised dogs in a normal state is materially lowered when cottonseed oil is given simultaneously. In the treatment of the acute relapse, they stress the great importance of early diagnosis and the prompt vigorous treatment with salt by mouth or physiological solution of sodium chloride and dextrose solution intravenously, and the use of large amounts of cortical extract. They believe that the clinical value of injections of the cortical hormone as a routine treatment during the remissions of Addison's disease has not been satisfactorily demonstrated. So far as their experience indicates, however, there is no danger whatever in the use of extract if this seems desirable. The extract has no definite effect on hypotension or on the pigmentation. The authors are not convinced that it has any effect on nutrition and weight. The chief value of the cortical extract lies in the treatment of the relapse, the symptoms of which they regard as fundamentally those of shock, and due primarily to cortical deficiency. In patients showing such symptoms for longer or shorter periods, injections of the cortical hormone extracts are of definite value and may be of vital importance.

OPTICS

Ocular Fatigue.—M. Luckiesh and F. K. Moss ("American Journal of Ophthalmology," May 1933) have taken morning and afternoon measurements, over a period of four weeks, on nine subjects to determine what change, if any, occurred in the pupillary area as the result of close visual work. There is apparently dilatation of the pupil due to "ocular fatigue" which would seem due to muscular rather than to retinal fatigue. Analysis of the data also indicates that the size of the pupil not only increases during the day but also as the week progresses from Monday onwards.

PHARMACOLOGY

Pharmacology of Dinitrophenol.—W. C. Cutting and others give ("Journal of the American Medical Association," 101, 3, 193) the results of preliminary experiments in the pharmacology of alpha-dinitrophenol, which they have administered to several patients in doses of from 3 to 5 mg. per kilo of body weight. The conclusions reached are:—(1) Dinitrophenol possesses prompt and striking pharmacological actions, which are similar in animals and men. (2) The outstanding actions are sustained increases in metabolism and body temperature, enormous activity of all metabolic functions, and fatal pyrexia with excessive doses. (3) Doses within therapeutic range cause in man significant increases in metabolism without fever, which may be useful in treatment of obesity, hypothyroidism and similar depressed metabolic states. (4) There are limitations to and possible dangers from the use of the drug clinically. It should be used under strictly controlled conditions.

Phenolphthalein "Intoxication."—B. A. Newman discusses, in "The Journal of the American Medical Association" (101, 10, 761), various untoward symptoms observed after taking phenolphthalein. The characteristic eruption is easily recognised by the dermatologist; as far as is known, only three other substances provoke identical eruptions—antipyrine, arshenamine and amidopyrine. After reviewing the literature of the subject, the author gives a list of eighteen atypical cutaneous manifestations and four manifestations other

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than cutaneous. In a final paragraph he remarks that phenolphthalein is contained in more than 125 proprietary preparations, put up in the form of laxative drugs, chewing gums, confections, fruits and biscuits. It is also used for pink icing on cakes, for colouring candies, and in pink mouth washes and dentifrices. Hence, when exudative lesions of obscure origin are present, phenolphthalein as an ætiological agent should be considered in differential diagnosis.

Pharmacology of Three Substitutes for Morphine and Heroin.—G. N. Myers has investigated ("British Medical Journal," 3788, 282) in considerable detail the pharmacological action of dilaudid, dicodid and eukodal. His summary of results is:—(1) Dilaudid, dicodid and eukodal have an action on the respiration which is similar to that produced by morphine. They have little or no effect upon the bronchioles. (2) These drugs produce marked analgesia. (3) Dilaudid and dicodid have a marked action upon the tone and movements of the alimentary canal. This effect is very much less marked with eukodal. (4) Small doses of dilaudid or dicodid render the vagal centres in the medulla more sensitive; larger doses depress. Eukodal depresses the centre, even in small doses. (5) Toxic doses of dilaudid or dicodid increase the reflex excitability of the cord. Eukodal does not alter these reflexes. (6) The toxicity of dilaudid and eukodal is much greater than that of dicodid. (7) These drugs have only a negligible action on the cardio-vascular system. Dilaudid causes some slight slowing of the heart, which is central in origin.

Pharmacology of Visnagin.—In continuation of previous studies, K. Saaman has investigated ("Quarterly Journal of Pharmacy and Pharmacology," 6, 2, 174) the pharmacological action of visnagin, one of the active principles of *Amni Visnaga*. The author's conclusions are: (1) Crystalline visnagin (m.p. 138° C.) has the m.l.d. of 260 mgm. per kilo body weight of toad intralymphatically at six hours. (2) In the toad, fatal doses of visnagin depress the central nervous system, diminish the reflex activity of the spinal cord and slow the heart and respiration from the beginning. (3) Visnagin depresses the toad's heart through stimulation of the vagal nerve endings, and when these are paralysed by atropine, the drug acts directly on the cardiac muscle and increases its contractility. (4) In the dog, visnagin in small doses accelerates respiration with a great diminution of expiration, the blood pressure falls, due to vascular and cardiac changes, while the intestinal volume increases. With larger doses, respiration gets slower and cardiac inhibition through vagal stimulation is evident. Respiration is arrested some time before the heart. (5) Visnagin slightly relaxes all smooth muscle investigated by direct action on the muscle fibres—toad's blood vessels, rabbit's intestines, guinea-pig and rabbit's uterus and the bull's ureter. Strong solutions of the drug (1 : 10,000 to 1 : 20,000), however, diminish the rate of flow through blood vessels, this being a secondary result to the action of the drug on voluntary muscle. (6) Visnagin in concentrations as low as 1 : 10,000 to 1 : 20,000 produce contracture of the gastrocnemius muscle of the toad, the effect being direct on muscle tissue.

PHOTOGRAPHY

Grainless Miniature Negatives.—A. F. Cullen, writing to the "British Journal of Photography" (May 12, 1933) suggests brief development followed by sulphide intensification for minimising grain in small negatives. It is found that a partially oxidised 20 per cent. sulphide solution, added to tap water in the proportion of about 20 drops to 2 oz., rapidly turns a bleached negative brown, producing ample contrast even from "ghost" negatives. The bleaching may be carried out with either ferricyanide-bromide or permanganate bleacher.

Sensitivity of Silver Sulphide.—K. Hickman and W. Weyerts ("Nature," July 22) point out that it is well known that silver halides are darkened by light in the presence of excess of silver ion. That silver sulphide exhibits the same effect is noteworthy. Applied to photographic materials, the reaction affords a kind of image building which, in general, can be called optical intensification and, in particular, sulphide intensification. The silver image is bleached in the usual manner, converted to sulphide, and after washing is placed in a silver sodium nitrite solution and rocked for two to ten minutes close under a 100-watt tungsten lamp. Excessive contrast, amounting to an increase of gamma of ten times, can be secured by bleaching in a dilute acetic acid-sodium acetate-permanganate-bromide solution, clearing in bisulphite, sulphiding in a bath containing a silver halide solvent, and after a bisulphite rinse, intensifying under the light in sodium silver sulphide solution.

Making a Fade-Out by After-Treatment.—C. E. Ives, L. E. Muehler and J. I. Crabtree (Communication No. 475, Kodak Research Laboratories) state that fade-outs have been made for many years by moving the diaphragm or using a dissolving shutter in the camera during exposure. It is convenient, however, to make a fade on either the developed positive or negative film by chemical means. A modified Belitzski reducer formula of the "cutting" type is recommended for negative fade-outs. The film is introduced with a positive acceleration into a tube or tank filled with the solution so that the portion immersed last receives the least degree of reduction and a wedge effect is obtained. Another method consists in bleaching out the image in either a ferricyanide-bromide or a permanganate bleaching bath and redeveloping with the same manipulative treatment as for reduction. Positive fade-outs may be made conveniently by tinting with a black dye solution.

VETERINARY MEDICINE

Chloral Hydrate as an Anæsthetic for the Fowl.—N. Hole ("Journal of Comparative Pathology and Therapeutics," March 1933) finds that for the fowl chloral hydrate, injected into the blood stream, is a fairly safe anæsthetic which will produce a complete anæsthesia of over half an hour's duration. A solution containing 1 gm. in 10 c.c. of normal saline was prepared, and birds weighing between 51 oz. and 58 oz. inoculated with two to four c.c. were "under" within thirty seconds to two minutes and remained for eighteen minutes to an hour. Fowls receiving 0.6 gm. or more in 1 c.c. of saline died, but no fowl succumbed to 0.4 gm. or less. Weight of the bird did not appear to influence toxicity, but the lethal dose for 85 oz. birds seemed essentially the same as 55 oz. birds. Fowls appear to tolerate larger amounts of chloral in dilute than in concentrated solution.

Canine Hysteria.—H. D. Walston ("Nature," August 12) states that some evidence has been collected indicating a connection between so-called canine hysteria and vitamin A deficiency coupled with a substance ("E-substance") occurring in dog biscuits and other cereals. Fifty-four cases of dogs suffering from hysteria were investigated. Of these, all except one were fed on a preponderantly cereal diet; twenty-six of these, continuing on the same diet, remained hysterical, while twenty-eight, the diet of which was changed to contain more vitamin A, recovered. In the absence of quantitative data it is not possible to assess the exact pharmacological ratio of vitamin A : E-substance. The recent work of Mellanby, in which dogs were fed on a cereal diet deficient in vitamin A, is suggestive; symptoms closely resembling canine hysteria were aggravated by the addition of wheat germ. Mellanby's work, taken in conjunction with the similarity of symptoms, treatment and cure of convulsive ergotism and canine hysteria, make it possible that the cause of the two is the same, or closely allied.

Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

28 Essex Street, W.C.2, September 28

As a whole the markets have shown a little more life this week and business seems to have been rather better. The general tone is steady and some appreciations in values are recorded. Exchange difficulties continue to exercise a nervous influence over many markets. In the pharmaceutical chemicals markets business has been well up to normal. Quinine salts have been advanced to compensate for the low sterling exchange rate. Continental makers of caffeine and theobromine have withdrawn their prices; the formation of a convention is contemplated. There has been a little more inquiry for salicylates. The crude drugs markets have, in some instances, improved a little, while the general tone on spot is steady and fully supported by shipment values. Agar is a poor market. Belgian chamomiles are firm with high prices mentioned for second pickings. Norwegian cod-liver oil is reported firmer. There has been a brisk demand for henna leaves and a good deal of the spot supplies have been cleared, with high prices now asked for anything now available. Japanese menthol is steady but dull. New crop arrivals of Tinnevely senna leaves of good quality are attracting attention. Shippers of tragacanth have advanced their limits; spot supplies are short. The demand for Jamaican honey has been persistent; spot supplies of the manufacturing qualities are limited and again at higher prices; market is now very firm. Business in essential oils has again been fairly satisfactory and some markets have been of general interest. New crop French lavender is now firm at a further substantial advance. Spanish spike and Brazilian bois de rose are dearer and firm. Java citronella is dull. Sicilian hand-pressed new crop lemon for shipment is steady and dearer. Lemongrass has been quiet but is steadier. Petitgrain is dearer on spot and nothing offering forward. Japanese peppermint is still dull but steady at current low prices. Bourbon vetiver is much dearer and reported firm at source. In industrial chemicals the chief alteration in prices is a reduction in white lead. Business in these products is still limited, but prices are being steadily maintained. Fixed oils are meeting with a slow demand. Linseed oil and American turpentine are easier. Cotton oils are steadier.

Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	September 28	Value of the £
Amsterdam ...	Fl. to £	12.107	7.73	12/9½
Berlin ...	Mks. to £	20.43	13.07½	12/9½
Brussels ...	Belgas to £	35	22.35½	12/9½
Copenhagen ...	Kr. to £	18.159	22.40	24/8
Lisbon ...	Esc. to £	110	110	20/-
Madrid ...	Ptas. to £	25.22½	37½	29/7
Milan ...	Lire to £	92.46	59½	12/9½
Montreal ...	Dol. to £	4.86½	4.84½	19/10½
New York ...	Dol. to £	nominal	4.72½	19/4½
Oslo ...	Kr. to £	18.159	19.90	21/11
Paris ...	Fr. to £	124.21	79½	12/10
Prague ...	Kr. to £	164.25	105	12/10
Stockholm ...	Kr. to £	18.159	19.38½	21/4½
Warsaw ...	Zloty to £	43.38	28	12/11½
Zurich ...	Fr. to £	25.2215	16.05	12/10½

Bank rate 2 per cent.

Pharmaceutical Chemicals, etc.

RATHER more inquiry fairly well spread over the markets is recorded. Prices are keeping steady, with imported products moving with exchange fluctuations. Quinine salts are all dearer, with sulphate at a penny advance. Continental caffeine and theobromine prices have been withdrawn.

ACETANILID.—Business remains quiet; market unchanged; B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOL is quoted steadily, business limited: 56 lb., 7s. 3d.; 28 lb., 7s. 6d.; 14 lb., 7s. 11d. per lb., in 7-lb. tins.

AMIDOPYRIN.—The recent advances are maintained on current exchange rates: crystals, five cwt., 19s. 3d.; two cwt., 19s. 9d.; less than two cwt., 20s. 9d. per lb.; with powder, 2½d. per lb. extra.

AMMONIUM BENZOATE is quoted on spot at about 3s. 4d. to 3s. 6d. per lb., as to quantity. Market is dull.

AMMONIUM ICHTHOSULPHONATE continues steady on a quiet market: one cwt., 1s. 6½d. in 14-lb. tins; 1s. 8d. in 1-lb. tins; 1s. 10d. in 8-oz. tins; and 2s. per lb., in 4-oz. tins.

ASPIRIN.—The demand is satisfactory, with makers' and dealers' prices maintained: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works.

BARBITONE.—Market is very steady and firm forward: spot, one cwt., 13s. 1d.; 56 lb., 13s. 3d.; 14 lb., 13s. 6d.; small parcels, up to 14s. 3d. per lb.

BENZONAPHTHOL.—Spot prices for small quantities are in the region of 3s. 3d. per lb.

BENZOIC ACID (B.P.).—A fair business, with the market steady: quantities, ex works, 1s. 9½d.; spot parcels, 1s. 10d. to 2s. 2d. per lb., ex store, as to quantity.

BROMIDES.—Rather more inquiry, with makers' and dealers' quoted prices maintained: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., net, without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE is quoted at former rates; market quiet: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1-lb. bottles.

CAFFEINE.—Reports state that the Continental makers have withdrawn their prices and that the formation of a Convention is contemplated. Spot values are nominal at the moment. On Thursday Continental reports indicate that the new scale of prices will run from 7s. for 10 cwt. up to about 7s. 6d. per lb. for small parcels.

CALCIUM LACTATE.—A moderate business is reported, with the market keen: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 1½d.; 28 lb., 1s. 2½d.; smaller quantities, up to 1s. 6d. per lb.

CHLORAL HYDRATE.—Makers' prices for home trade are at the advance recorded last week: duty-paid crystals, in 14-lb. free containers, five cwt., 3s. 6d.; one cwt., 3s. 7d.; 56 lb., 3s. 8d.; 28 lb., 3s. 9d.; 14 lb., 3s. 10d. per lb.; 28-lb. jars, one penny per lb. extra.

CHLOROFORM.—Makers' prices are as follows: in drums, 2s. 3d. to 2s. 6d.; winchesters, 2s. 3½d. to 2s. 6½d.; 2-lb. bottles, 2s. 4½d. to 2s. 7½d.; 1-lb. bottles, 2s. 5½d. to 2s. 8½d.; 8-oz. bottles, 2s. 6½d. to 2s. 9½d.; 4-oz. bottles, 2s. 8½d. to 2s. 11d.; for 10 cwt. down to 56 lb. lots, carriage paid on minimum cwt. lots.

CITRIC ACID (B.P. CRYSTALS).—The home trade quotation from makers is steady at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices are about level.

COCAINE.—The Convention notify that on account of the further decline in sterling exchange rates their export prices to the Dominions have been advanced. Prices continue to vary as to quantity and destination.

CREAM OF TARTAR.—British makers' quoted prices for 99 to 100 per cent. material is steady at 80s. per cwt., less 2½ per cent. discount, nominal and without engagement. Dealers are quoting at competitive prices.

CREOSOTE (B.P.).—Bulk quantities in 25-kilo. demijohns are offering at about 1s. 9½d. per lb.; smaller parcels, up to 2s. 2d. per lb. Market is dull.

ETHER (METHYLATED).—Makers' prices are as follows: s.g. 0.750, 1s. 1½d.; 0.735, 1s. 2d.; 0.730, 1s. 2d.; 0.725, 1s. 4d. per lb., in w-quarts; 12 w-quarts, halfpenny less, and packed in drums or carboys 1d. less.

GUAIACOL CARBONATE.—Dealers' prices are fully maintained and dearer forward: spot, one cwt., 9s.; 56 lb., 9s. 1d.; 28 lb., 9s. 2d.; smaller quantities, up to 9s. 6d. per lb.

HYDROQUINONE.—Market is quoted steadily, business rather quieter: ten cwt., 5s. 7½d.; five cwt., 5s. 8½d.; two cwt., 5s. 9d.; one cwt., 5s. 9½d.; 56 lb., 5s. 10½d.; 28 lb., 6s.; 14 lb., 6s. 2d.; 7 lb., 6s. 6d. per lb., carriage paid.

LACTIC ACID (B.P.).—A moderate business, market rather competitive: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 7d. to 1s. 10d. per lb., as to quantity.

METHYL SALICYLATE (B.P.).—Market is not quite so dull, with makers' and dealers' quoted prices unchanged: one ton and over, 1s. 4½d.; ten cwt., 1s. 5d.; five cwt., 1s. 5½d.; one cwt., 1s. 6d.; less than one cwt., 1s. 6½d.; small quantities in bottles, up to 2s. per lb.

METHYL SULPHONAL.—The market is moving with exchange rates; business is limited: two cwt., 21s.; one cwt., 21s. 9d.; 56 lb., 22s. 4d.; small parcels, 23s. 3d. per lb.

METOL.—Market is steady, but rather dull: 56 lb., 9s. 6d.; 28 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb., in 7-lb. tins, bottles extra. Wholesale distributors' prices for smaller quantities would be dearer.

MILK SUGAR.—We are advised that there are still no settled prices for British material.

PARAFORMALDEHYDE.—Average business with prices steadily maintained: 100 per cent. powder, quantities in kegs, 1s. 3d.; smaller parcels, up to 1s. 8d. per lb.

PHENACETIN.—Business seems to be a little better; the scale prices are still being discounted in some quarters: crystals, ten cwt., 4s. 1½d.; five cwt., 4s. 3d.; two cwt., 4s. 4½d.; 56 lb., 4s. 6d.; less than 56 lb., 4s. 9d. per lb., carriage paid on minimum cwt. lots. No falling clause on contracts over twelve months.

PHENAZONE.—Some rather cheaper offers continue, but the forward position is firm; business limited: crystals, ten cwt., 10s. 8d.; five cwt., 10s. 11d.; two cwt., 11s. 3d.; and less, 11s. 8d. per lb., with powder 2½d. per lb. extra.

PHENOLPHTHALEIN.—Makers' agreed prices are unchanged; business quiet and isolated cheaper offers: two cwt., 4s. 7d.; one cwt., 4s. 8d.; 28 lb., 4s. 11d.; 14 lb., 5s. 2d.; 7 lb., 5s. 5d.; smaller parcels, up to 5s. 8d. per lb.

PHENYL ETHYL BARBITURIC.—Business is limited with the market competitive. Small lots on spot at about 31s. to 32s. per lb., in 2-lb. bottles.

POTASSIUM PERMANGANATE (B.P.).—Dealers are doing a fair business in small lots at steady prices: quantities in two-cwt. drums, 8½d. to 8½d.; druggists' parcels, 9d. to 10d. per lb., as to quantity.

POTASSIUM SULPHOGUAIACOLATE.—Dealers are quoting spot at about 5s. 10d. to 6s. per lb., as to quantity. Forward prices rather dearer.

PYROGALLIC ACID.—Makers' prices are as follows: 56 lb., 7s.; 28 lb., 7s. 3d.; 14 lb., 7s. 9d.; 7 lb., 8s. 6d. per lb., in 7-lb. tins.

QUININE SALTS.—Convention prices for these salts have advanced on account of the further weakness in sterling: sulphate, 2s.; bisulphate, 2s.; ethyl carbonate, 2s. 7½d.; salicylate, 2s. 8d.; phosphate, 3s.; hydrochloride, 2s. 6½d.; bihydrochloride, 2s. 9½d.; hydrobromide, 2s. 6½d.; bihydrobromide, 2s. 9½d.; valerianate, 3s. 1½d.; hypophosphite, 3s. 4½d.; alkaloid, 2s. 9½d. per oz., carriage paid on bulk quantities.

RESORCIN.—A fair business is reported with British material quoted as follows: crystals, one cwt., 4s. 11d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 3d.; 7 lb., 5s. 6d.; less than 7 lb., 6s. per lb. Any foreign material available would be about 5s. 6d. to 6s. per lb. for small parcels.

SALICYLIC ACID (B.P.).—Inquiry is a little better; makers' prices unchanged: one ton, 1s. 7d.; ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb.

SALOL.—Prices are steadier at the reduced Convention rates recorded last week: spot, crystals, two cwt., 3s. 10d.; one cwt., 3s. 11½d.; 56 lb., 4s.; smaller parcels, 4s. 1d. per lb.; powder, 2d. per lb. extra.

SANTONIN.—The scale of sales prices is still on the old dollar figures. Some outside offers may be cheaper on spot.

SODIUM BENZOATE (B.P.).—A fair business is being done at competitive prices. B.P., 1932 quality, one cwt., 1s. 7d.; smaller quantities, up to 1s. 10d. per lb.

SODIUM DIETHYLBARBITURATE.—Quoted prices are as recently revised: spot, one cwt., 13s.; 56 lb., 13s. 3d.; 28 lb., 13s. 6d.; 14 lb., 14s.; smaller parcels, up to 15s. per lb.

SODIUM SALICYLATE (B.P.).—Inquiry is rather better with quoted prices unchanged: home trade, powder, two tons, 2s.; one ton, 2s. 0½d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 7d.; 1 lb., 2s. 8d. per lb., with crystals one penny per lb. extra.

SULPHONAL.—Dealers' spot prices are steady and dearer forward on current exchanges; business small: crystals, two cwt., 17s.; one cwt., 17s. 8d.; 56 lb., 18s.; smaller parcels, up to 19s. per lb., with powder 2d. per lb. extra.

TARTARIC ACID (B.P. CRYSTALS).—British makers continue to quote for home trade at 11½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers are quoting at competitive prices.

THEOBROMINE.—We are advised that Continental makers have withdrawn their prices and that an advance is expected. Spot values are nominal at the moment. On Thursday Continental reports indicate that the new scale of prices will run from 7s. for 10 cwt. up to about 7s. 6d. per lb. for small parcels.

THYMOL.—Quoted prices are maintained but the market is not steady: synthetic, fine white, one cwt., 5s. 1½d.; 56 lb., 5s. 3d.; 28 lb., 5s. 4½d.; 14 lb., 5s. 6d. per lb.; ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

VANILLIN.—There is a tendency for this market to harden, business is moving on a fair scale: 100 per cent., one ton, 14s. 3d.; ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

Crude Drugs, etc.

AGAR.—Market has been practically lifeless; quoted easier: spot, Kobe No. 1, 1s. 11d.; No. 2, 1s. 9½d.; Yokohama No. 1, 1s. 9½d. per lb.; shipment, Kobe No. 1, 1s. 8d.; No. 2, 1s. 6d.; Yokohama No. 1, 1s. 6d. per lb., c.i.f.

ALOES.—Some Curaçao, fair dark liver, are quoted on spot at about 80s. per cwt. Zanzibar, good liver, in leaves, 66s. per cwt.

ALKANET ROOT.—Dealers are offering spot at about 49s. 6d. per cwt.

ANTIMONY.—Market has been dull and is a point easier. Chinese, crude, spot, £20 10s.; shipment, £18, c.i.f. Chinese oxide, spot, £28; shipment, £25, c.i.f.

BALSAMS.—Dealers are offering *Tolu* on spot at from 2s. 10d. per lb. Capivi is steady at 1s. 8d. to 1s. 9d. per lb. Canada, 2s. 9d. per lb.

BELLADONNA.—Dealers are offering leaves in the region of 65s. per cwt., spot. Good test root is scarce at about 67s. 6d.; inferior quality, down to 47s. 6d. per cwt.

BUCHU.—Business continues on modest lines, with a few bales moving each week at the recent rates.

BURDOCK ROOT.—Dealers are offering spot at about 47s. 6d. per cwt.

CAMPHOR.—This market has been dull, but is fairly steady as quoted: spot, slabs, 2s. 2d.; flowers, 2s. 3d.; tablets, 2s. 6d. per lb.; shipment, slabs, 1s. 9½d.; flowers, 1s. 9½d.; tablets, 2s. 1d. per lb., c.i.f. English refined is quoted unchanged: flowers, one cwt., 3s. 1d.; 28 lb., 3s. 2d.; small lots, 3s. 3d. per lb. Transparent tablets, 4 oz., 8 oz., and 16 oz., 3s. 4d.; 1 oz. and 2 oz., 3s. 5d.; ½ oz., ½ oz., and ¼ oz., 3s. 6d. per lb.; special prices for contracts for quantities.

CANTHARIDES.—Some Russian on spot are offered at 7s. 6d. per lb. for small lots.

CARDAMOMS.—The general tone here is fully steady, with supplies and range restricted. New crop Aleppy greens, f.a.q., 1s. 9d. per lb., c.i.f. Bombay seeds, 2s. 9d. per lb., spot.

CASCARA SAGRADA.—Market is fully steady, with shipment at 34s. per cwt., landed and duty paid, for car-load lots. 1931 peel, about 65s. per cwt.

CELERY SEEDS.—Spot values are rather cheaper and steadier at 1s. 9d. per lb. for small lots.

CHAMOMILES.—The limited supplies of new crop Belgian flowers on spot are well held for 220s. up to 230s. per cwt. Second pickings are now being offered for shipment at 200s. per cwt.

CLOVES.—The market has been much steadier and a fair business is being done. Zanzibar, spot, 5½d.; shipment, October-December, 5½d. per lb., c.i.f. buyers.

The landings of Zanzibar in London during the week ended September 16 were 339 and the deliveries 164, leaving a stock of 2,506. From January 1 to date, landings of Zanzibar have been 4,533 and the deliveries 3,497. Landings of Madagascar for the week ended September 16 were nil, and the deliveries 15, leaving a stock of 1,045. Landings of Madagascar this year to date have been 32 and the deliveries 143.

COCOA BUTTER.—Prime English is quoted steadily at 9½d. to 10d. per lb., as to quantity.

COCONUT (DESICCATED).—Spot and forward quotations are slightly easier, market rather dull. Spot, fine, 17s. 6d.; medium, 17s. per cwt.; shipment, halves, September-October, 15s. 9d. per cwt., c.i.f.

COD-LIVER OIL.—The shipment market for Norwegian is reported to be rather dearer at 102s. 6d. per barrel, c.i.f., for finest Lofoten steam refined non-freezing medicinal oil; spot, about 134s. per barrel, ex store. Newfoundland finest non-freezing medicinal oil, 132s. 6d. per barrel, ex store. British

oil, non-freezing, finest medicinal quality, is being quoted by the makers at 125s. per barrel, c.i.f. London.

DAMIANA LEAVES.—Dealers are offering at about 1s. per lb.

ERGOT.—This market is quite firm on account of crop shortage. Spanish, 1s. 7d., c.i.f. Portuguese, 1s. 5½d. per lb., c.i.f. Russian is offering on spot at about 1s. per lb.

GELATIN.—Dealers' prices are keeping steady and a fair amount of business is being done on the spot: German, gold leaf, 2s. 4d.; silver leaf, 2s. 2d.; bronze leaf, 1s. 11d.; plain label, 1s. 10d.; French, gold leaf, 1s. 10d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 6½d. per lb., in cwt. cases.

GENTIAN.—Supplies are now available at about 52s. 6d. per cwt., spot.

GINGER.—Business has been rather poor this week. West African, spot, 22s. 3d. per cwt.

GUM ACACIA.—Market has remained dull and is nominally unchanged: spot, Kordofan cleaned sorts, 35s.; bleached, 70s. per cwt.; shipment, Kordofan cleaned sorts, 31s.; natural, 30s. per cwt., c.i.f.

HALIBUT-LIVER OIL.—Importers' prices for limited supplies available are steady at about 9s. 6d. per kilo., c.i.f., for 220/250 blue units.

HENNA LEAVES.—There has been a brisk demand here and most supplies have been cleared, it is reported, for re-export. Some brownish leaves are now offered at the high figure of 30s. per cwt.

HONEY.—Since last week's public auction inquiry has been brisk, with spot holders limiting their offerings. The lower grades of Jamaican are running short, and prices show a further substantial advance. Interest is now being taken in the better qualities. Market is very firm, and further advances are expected. Jamaican, dark liquid manufacturing, 38s. and firm; dark amber liquid, not less than 40s.; pale amber, fully 52s. 6d. per cwt. No St. Lucia offering in first hands. On Thursday the cheapest grade was very firm at 40s. and all other grades had also advanced.

HYDRASTIS.—A limited business, with prices about steady. Spot, 5s.; shipment, 4s. 3d. per lb., c.i.f.

IPECACUANHA.—This market continues to disappoint, with Matto Grosso about 4s. 6d. to 4s. 7½d. per lb. Minas, about 4s. 3d. per lb., spot.

LIQUORICE ROOT.—Dealers are offering natural at 17s. 6d. per cwt., spot.

MENTHOL.—Business has been of small importance and values are barely maintained this week; closing steadier. K/S brands, spot, about 11s. 6d. per lb., and less for bulk quantities; shipment, October-December, 8s. 7½d.; January-March, 8s. 7½d. per lb., c.i.f. Some inquiry for goods afloat, with 9s. 6d. per lb. quoted.

MERCURY.—A fair business has been done, mostly for shipment to India and the Far East. The market continues fully steady. Spot, £9 10s. to £9 15s. per bottle, ex store. Shipment is in the region of 46 dollars per bottle, f.o.b. Continent.

PEPPER.—Values are about level on the week; business has been moderate, market steady. Lampong, spot, 4½d.; shipment, October-December, 3½d.; January-March, 3½d., c.i.f. Tellicherry, spot, 5½d.; shipment, January-March, 40s.; Aleppy, spot, 5d.; shipment, January-March, 39s., c.i.f. White Muntok, spot, 6½d.; shipment, October-December, 5½d.; November-December, 5½d.; December, 5½d.; January-March, 5½d. per lb., c.i.f.

PIMENTO.—The market has remained rather quiet, but is about steady. Spot, 3½d. per lb.; shipment, October-November, 25s. 3d. per cwt., c.i.f.

RHUBARB.—Market is quiet but steady. Shensi, 3s. 9d. to 4s. 3d., as to quality. Canton, 2s. 2d. to 2s. 4d.; high dried, flat, 2s.; horny coated, 1s. 6d.; rough round, 1s. 2d. to 1s. 6d.

RUBBER.—Values for all positions show an advance on the week; market is steady and business fair. Standard ribbed smoked sheet, spot, 3½d.; October, 3½d.; November, 3½d.; December, 3½d.; January-March, 4½d.; April-June, 4½d.; July-September, 4½d. per lb.

SAFFRON.—Some small business is reported at former prices: spot, prime B.P., 58s.; extra B.P., 54s. 6d.; super B.P., 51s. 6d. per lb., and slightly less for bulk quantities.

SARSAPARILLA.—Some occasional business is reported; market steady: spot, native mixed colours, 1s. 1d. to 1s. 2d.; grey Jamaican, from 1s. 9d. per lb., as to quantity.

SEEDS.—**ANISE.**—Spot, Spanish, 54s.; Bulgarian, 44s., duty paid. **CANARY.**—Spot, Mazagan, 15s.; Tangier, 12s. 6d.; Kenitra, 12s. **LINSEED.**—Mazagan, spot, 18s. now quoted; Morocco, 16s. 6d. **CORIANDER.**—Morocco, 1929 crop, 15s. 6d.; 1932 crop all sold at 14s. 3d. in bond; 1933 crop, 16s. 6d., duty paid; wormy, 13s. to 14s. **CUMIN.**—Malta, 55s., c.i.f., quoted; Morocco, 52s. 6d., duty paid, and 45s., c.i.f., for October shipment. **FENUGREEK.**—Morocco offering at 12s. 6d. to 13s. 6d.,

duty paid. **CARAWAY.**—Dutch, 48s., duty paid. **MUSTARD.**—English, 25s. to 33s., according to quality.

SENEGA.—A little more business is reported, with the market steadier. Spot, 1s. 9d.; shipment, 1s. 7d. per lb., c.i.f.

SENNA.—Arrivals of new crop Tinnevely leaves of a satisfactory quality continue to come to hand, and business is being done on a fair scale at the rates mentioned in our last report.

SHELLAC.—The market has been dull and is quoted slightly easier. Spot, standard TN orange, 62s.; fine orange, 70s. to 122s. 6d.; pure button, 72s. 6d.; for delivery, TN, October, 55s.; December, 55s. 6d.; March, 55s.; for arrival, TN, September-October, 50s. per cwt., c.i.f.

SQUILLS.—Some spot supplies of fine white are offering at about 27s. 6d. per cwt.

STRAMONIUM LEAVES.—Dealers are quoting, as to quality, from 40s. to 50s. per cwt.

TRAGACANTH.—Spot supplies are limited, and it is understood that arrivals so far this month have been poor. Shippers have now cabled advanced limits for all grades. Inquiry continues on a good scale.

TUBA ROOT.—Market is fully steady, with spot at 10d. per lb. for small lots.

VALERIAN ROOT.—We are advised that Belgian shippers have advanced their prices.

WAX (VARIOUS).—These markets are mostly rather dull, but steady. **CARNAUBA**, fatty grey and chalky grey, 67s. 6d., in bond, and 63s., c.i.f.; **Primeira**, 145s., in bond, and 130s., c.i.f.; **Mediana**, 142s., in bond, and 120s., c.i.f. **BEES'**—**Benguela**, 96s.; **Abyssinian**, 96s.; **Calcutta**, 115s. per cwt. **Dar-es-Salaam** is in good demand and is firm at 95s., spot, and 90s., c.i.f. Spot supplies are limited.

Essential Oils, etc.

THERE is a fair amount of business being done and some few markets are experiencing better times. French lavender has reached very high figures. Spanish spike and Brazilian bois de rose are dearer and firm forward. Petitgrain is again quoted at higher prices on spot. Bourbon vetiver is much dearer and firm. Japanese peppermint is still rather dull, but a little steadier. Sicilian hand-pressed lemon, new crop, is dearer forward.

ALMOND.—A little more inquiry, market steady: Foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb. English, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb.

ANISE (STAR).—Market has remained dull and is quoted a point lower: spot, "Red Ship," in leads, 1s. 10½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d.; shipment, in leads, 1s. 8½d.; in tins, 1s. 7½d.; in drums, 1s. 6½d. per lb., c.i.f.

APRICOT KERNEL.—Makers are quoting at 1s. 4d. for cwt. lots up to 1s. 6d. per lb. for small parcels.

BAY.—The demand is slow and mostly for small quantities; quoted at about 6s. 6d. to 7s. 3d. per lb., as to percentage.

BERGAMOT.—Reliable new oil is keeping steady for shipment at about 6s. 9d. to 7s. 2d. per lb., c.i.f., as to brand and quantity. Spot oil varies from about 6s. 4d. to 7s. 3d. per lb., as to quality and quantity.

BOIS DE ROSE.—The shipment market is again dearer and firm, with supplies offered restricted: October-November shipment, 4s. 1d. per lb., c.i.f. Spot tends to be dearer at about 4s. 4d. to 4s. 6d. per lb., as to quantity. A fair amount of business is reported.

CAJUPUT.—Business seems to be unimportant. B.P. 1932 quality, from 2s. 1½d. to 2s. 3d. per lb.; green, 1s. 10½d. to 2s. per lb., as to quantity.

CANANGA.—The shipment market is reported to be dearer and close up to 7s. 4d.; spot has advanced to about 8s. 6d. per lb., but there may be rather cheaper offers.

CARAWAY.—The lower figures mentioned last week for Continental twice rectified are steady: cwt. lots, 8s. 11d.; 56 lb., 9s. 5d.; smaller parcels, up to 10s. per lb. Business is fair.

CASSIA.—Business has been slow, quoted unchanged: spot, 3s. 7d. to 3s. 8d. per lb.; shipment, in drums, 3s.; in leads, 3s. 2d. per lb., c.i.f.

CEDARWOOD.—This article has been dull and prices are rather easy as quoted. American, in drums, 1s. 8d. Colonial, in drums, 1s. 6d.; in tins, 1s. 8d. per lb., for fair quantities.

CINNAMON LEAF.—Business is only occasional in smallish lots. Spot, about 2s. 9d. to 3s. per lb., as to quantity.

CITRONELLA.—The shipment market for Java remains dull, so far as this country is concerned and offers are at about 1s. 8½d. per lb., c.i.f. Small spot business is being done in the region of 2s. 4d. per lb. Ceylon is fairly steady, unchanged and quiet. Spot, 1s. 11d.; shipment, 1s. 6½d. per lb., c.i.f.

CLOVE.—The market is quite steady and business has been very fair. Madagascar, spot, 3s. 7d.; shipment, 3s. per lb., c.i.f.

EUCALYPTUS.—Conditions at the source for the Colonial product are firmer and the spot market is tending to move up. Australian, 70 to 75 per cent., 11d. to 1s.; 80 to 85 per cent., 1s. to 1s. 1d. per lb., as to quantity. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

GERANIUM.—Bourbon has been of a little more interest and some few small spot sales are reported. Shipment is keeping in the region of 21s. per lb., c.i.f., for a good oil. Spot, about 23s. 6d., with an odd parcel offering at much less. Algerian is still very firm and is again dearer at 24s. 9d. per lb., c.i.f.

GINGERGRASS.—Market has been dull throughout. Spot, 5s. 7d. to 5s. 10d. per lb., as to quantity.

JUNIPER BERRY.—Some fair business is reported at keen prices. Spot, about 3s. 2d. for quantities, and up to 3s. 6d. per lb. for small parcels.

LAVERDER.—A further substantial advance in the shipment figure for new crop French of first quality is recorded. Offers are now being restricted and run from 17s. 4d. up to 18s. 6d. per lb., landed, for 38 to 40 per cent. At the annual fair at Digne, on Saturday last, up to 160 francs per kilo. is reported to have been paid; this represents, on current exchange rates, approximately 18s. per lb. Some spot holders are selling restricted quantities at something less, ex limited stocks brought in early on when prices were substantially cheaper.

LEMON.—The shipment quotation for new crop Sicilian hand-pressed, December-January shipment, is again rather dearer at close up to 4s. 6d. per lb., c.i.f. There is practically no first quality old oil offering. Machine made, 3s. 8d. to 3s. 9d. per lb., c.i.f. Spot varies from about 3s. 9d. to 4s. 6d. per lb., as to quality and quantity. Californian is steady, and in occasional request; spot, in large drums, 48 cents; in small drums, 49 cents per lb.

LEMONGRASS.—Business has been limited, but the market is now fairly steady. Shipment, about 2s. 11d. per lb., c.i.f.; spot, about 3s. 5d. to 3s. 6d. per lb., as to quantity.

LIME.—Some fair inquiry for new crop West Indian, which is quoted in the region of 29s. 3d. per lb., c.i.f. Spot, about 33s. per lb. for old oil in small lots.

MANDARIN.—Dealers are doing a few small orders on spot at from 14s. to 15s. per lb., as to quality. Shipment is steady at 13s. 6d. per lb., c.i.f.

NUMEG.—English-made oil of first quality is offering at about 6s. 3d. per lb.

ORANGE.—There seems to be but small interest in shipment offers of Sicilian sweet in the region of 5s. 3d. to 5s. 6d. per lb., c.i.f. Spot runs from 5s. to 5s. 6d. per lb., as to quality and quantity. French Colonial on spot in small lots is at 3s. 6d. per lb.; shipment is attracting attention with offers of bulk quantities of new oil at about 2s. 10d. per lb., c.i.f. Californian, spot, one case, 61 cents; two or more cases, 56 cents per lb.

PALMAROSA.—There has been little interest in this article except some forward inquiry. Spot, 7s. 3d.; shipment, 6s. 6d. per lb., c.i.f.

PAITCHOULI.—Inquiry on spot is small with offers at about 7s. per lb.; shipment would be about 6s. 6d. per lb., c.i.f.

PEPPERMINT.—Some moderate business was done early on, but the market has since been quiet, with values barely maintained on the week but closing steadier. Japanese, spot, about 4s. 6d.; shipment, September-October, 3s. 3½d.; October-December, 3s. 1½d.; January-March, 3s. 1½d. per lb., c.i.f. On Thursday the market was still flat but fairly steady with shipment figures a halfpenny cheaper. American natural oil, in drums, for shipment, is nominal at about 2 dollars 55 cents per lb., c.i.f. There is very little doing on account of exchange nervousness, but the market is fully steady.

PELITGRAIN.—Spot holders' prices are generally firm with some quotations now at 4s. 3d. per lb. It is very difficult to obtain any offers for shipment with the position indicated as being firm.

ROSEMARY.—Business is rather slow with dealers quoting first quality oil at 1s. 6d. to 1s. 8d. per lb., as to quantity.

SANDALWOOD.—English-made West Indian is steady; cwt. lots, 6s. 6d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb. Genuine East Indian from first-hands is unchanged at 20s. per lb.

SASSAFRAS.—Business is limited; values, as to quality, for natural from 3s. 6d. to 4s. 6d. per lb. Artificial at cheaper prices.

SPEARMINT.—The weakness in this market noted last week is reflected in the cheaper spot offers in the region of 7s. 6d. per lb.

SPIKE.—Considerable interest has been noted in this market and the position continues strong. Spanish, new crop, is now

mentioned at 4s. 3d. to 4s. 5d. per lb., landed, for best quality. French, new crop, is also dearer for shipment at 7s. 3d. per lb., landed.

VEVIVERT.—Reports from source indicate that the market is very firm. Shipment offers of Bourbon are difficult to obtain and, at the moment, the price is nominal. Spot holders are not anxious to sell.

WINTERGREEN.—Occasional small business is reported with dealers asking from 6s. 9d. to 7s. 3d. per lb.

WORMSEED.—Market is steady with a little business passing. Spot, 11s. 3d.; shipment, 10s. per lb., c.i.f.

Fixed Oils, etc.

THE demand has been patchy in these products, fair business alternating with periods of slackness. Prices are about maintained. Linseed oil and American turpentine are dull and rather easier. Cotton oils have been in better request with prices a point higher. **ACID OILS.**—Quoted about unchanged, business is slow: coconut and/or palm kernel, 20s. 3d.; groundnut, 19s. 6d.; soya, 15s. 6d., spot. **CASTOR.**—Market is about steady, business moderate: pharmaceutical, 40s.; first pressings, 35s.; second pressings, 32s.; (barrels), cases £4 per ton extra, ex mills, Hull, in not less than one ton lots; Bombay, 23s. 9d.; (drums), c.i.f. **COCONUT.**—The feature of this market is the low quotation for Ceylon mill: deodorised, 28s. 3d. (barrels), spot; Ceylon, 16s. 9d. (drums), c.i.f. **COTTON.**—The market is steadier at the slightly improved values now operating: deodorised, 25s. 9d.; common edible, 23s. 9d.; soapmaking, 23s. 3d.; crude, 21s. 9d. (barrels), spot. **GROUNDNUT.**—Market is slightly easier and remains rather dull: deodorised, 20s. 9d. (barrels), spot; crude Oriental, 21s. 9d. (drums), c.i.f. **LINSEED (RAW, NAKED).**—The market has been rather dull and is slightly easier: on spot, 20s. 6d.; October, 19s.; November-December, 19s. 3d.; January-April, 19s. 7½d. Boiled oil, on spot, 23s. **OLIVE.**—Dealers are doing a fair business with prices about steady: edible, in tins in cases, 70s. per case of ten gallons; B.P., 4s. 6d. per gallon, in 40-gallon barrels. **PALM.**—The market has been irregular with business patchy, closing rather steadier: Lagos, 15s. 3d., c.i.f.; softs, 15s. spot; mediums, 15s. 6d., c.i.f.; hards, 16s. 3d., c.i.f., nominal; bleached, 18s. 3d., spot. **PALM KERNEL.**—Market is quoted at better prices, business fair: deodorised, 29s. 3d.; crude, 20s. 6d., spot. **RAPE.**—About unchanged on a quiet market: refined, 31s. 9d.; crude, 30s. 3d., spot. **RESIN.**—Market is about steady while business has been rather slow: B, 13s. 6d.; D, 13s. 9d.; F/G, 14s. 3d.; N, 16s.; W/G, 16s. 6d.; W/W, 17s. per cwt., ex wharf. **SOYA.**—A small business being done at about former rates: deodorised, 27s. 6d.; crude, 24s. 3d., spot. **TURPENTINE, AMERICAN.**—The market is again quoted cheaper and is dull. Total London stocks, 15,674 barrels. On spot, 47s. 3d. **WOOD.**—The demand for Hankow in barrels on spot is slow; quoted at 49s.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1933, p. 329.

(From "The Trade Marks Journal," September 20, 1933)

- "ANTIFONG"; for tonic medicines for animals and birds (2). By Liverine, Ltd., 37 Fraser Street, Grimsby. 542,282.
- "RID-O-BEET"; for chemicals for killing beetles (2). By A. K. Hillson, 102 Kenmuire Street, Pollockshields, Glasgow. 543,105.
- "KILLVER"; for chemicals (2). By H. J. Kinsman, "Chelmer," Crescent Road, Chandler's Ford, Hampshire. 543,338.
- "RENOVITA"; for veterinary preparations (2). By The Vitality Vitamin Laboratories, Ltd., "The Little Bungalow," Burton Hill, Melton Mowbray. 543,992.
- "BIFEC"; for indigestion powders (3). By E. Davies-Lewis. 167 Fratton Road, Portsmouth. 543,240.
- "FORACITE"; for medicine (3). By Naamlooze Vennootschap Drogerijen Maatschappij, 56 Verlaatsstraat, Rotterdam, Holland. 540,215.
- "RODEALIN"; for diuretics and heart tonics (3). By Kabushiki-Kaisha Takeda Chobei Shoten, 27 Doshomachi 2-chome, Higashiku, Osaka, Japan. 543,742.

CANCELLATION

According to "The Trade Marks Journal" of September 20, 1933, "DUVESSE" in Class 48, No. 541,386, by General Kaputine Syndicate, Ltd., has been cancelled in respect of perfumed soap.

Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

The New N.H.I. Formulary

SIR,—Unless the date of introduction of the new N.H.I. Formulary is postponed, chemists all over the country will suffer serious loss. As the chemist representative on two Insurance Committees I agreed on behalf of the local pharmacists to the "coming into operation" on October 1. But that was in August! And one naturally assumed that the new Formulary would be issued immediately. It is now September 22, with no distribution of the book. Under the circumstances the Derby Insurance Committee, at their meeting on September 20, unanimously decided to postpone the date of operation until January 1, 1934.

Yours faithfully,

H. G. TOY.

Secretary, Derby Pharmaceutical Committee and Derbyshire Pharmaceutical Committee.

SIR,—A number of your correspondents seem to be needlessly anxious about having to throw away their remaining stocks of the three U.S.P. fluidextracts when the new National Insurance Formulary comes into force. On reference to the B.P.C., where the formulas of these fluidextracts are stated, I found that fluidextract of senega is identical with the new ext. senegæ liq., B.P., except for a slight difference in alcoholic strength which should make no difference. Fluidextract. hyoscyami, U.S.P., is standardised to contain 0.065 per cent. of alkaloids, while ext. hyoscyami liq. contains only 0.05 per cent. of alkaloids. There seems to be no reason why (for instance) 1 fl. oz. of this fluidextract should not be diluted with, say, 50-per-cent. alcohol, to make 1 fl. oz. 144 minims of ext. hyoscyami liq., B.P. Similarly, fluidextract. colchici may be diluted with, say, 45-per-cent. alcohol to form ext. colchici liq. B.P., 1 fl. oz. yielding 1 fl. oz. 160 minims. The use of alcohol of a somewhat smaller strength would tend to bring the alcohol content of the liquid extracts to within the official limits. There seems to be no illegality in so making one's own liquid extracts, as the "General notices" at the front of the 1932 B.P. state that the method of manufacture can be altered as long as the resulting product is identical with that made by the official method.—Yours faithfully,

Midsomer Norton.

HARRY EDWARDS.

Proprietaries in N.H.I. Dispensing

SIR,—In reply to "Unpatent" (*C. & D.*, September 22, p. 408), I venture to suggest that it is the chemist who must decide for himself if he may reasonably expect to be able to dispose readily of the remainder of the original package. Unless he feels sure that he will experience no difficulty in disposing of it, his duty to himself requires that he should claim for payment of the entire contents of the original package. What proportion of the contents may have been ordered is not a matter for the chemist's concern, provided he has used the smallest original package containing sufficient to enable him to execute the doctor's order. If, later, he should receive another prescription for a quantity of the same preparation, and he is able to dispense that quantity from the remainder in the already opened original package, all he needs to do is to indicate on the script that he now claims only for the dispensing fee. There may be instances where the chemist, in the proper exercise of his discretion, may consider it desirable to supply less than the doctor has ordered. Thus, in one case which was brought to my notice the prescription was for 1 oz. of a preparation which is supplied only in 20 c.c. bottles. My advice was to send the contents of one original package and let the doctor know how much the only obtainable bottle contained. The two important points to be borne in mind are, first, that no more of the preparation shall be dispensed and supplied to the

patient than the exact quantity ordered by the doctor; and, secondly, that the chemist shall be careful always to guard himself against loss. For this reason it may be necessary for him to ascertain from time to time whether or not his claims to be paid for the entire contents of original packages have been allowed. A certain amount of trouble may be involved in doing one's best to comply always with Drug Tariff requirements, but that is inevitable in such a complex business as the supply of medicines to so large a number of persons, under rules dictated by State officials.—Yours faithfully,

JOHN HUMPHREY.

Harrow.

Retailers' Difficulties

SIR,—Chemists engaged in retail business can get a lot of useful information regarding their legal relationship to their customers and wholesalers from the article headed "Common Sense for Chemists" by Mr. Arthur Mortimer (*C. & D.*, August 26, p. 293), but one or two comments and queries suggest themselves. When goods are displayed in a shop window with a price ticket, it may be optional whether the chemist refuses to sell or not; if he is anxious to secure custom he will make the sale even if the price has been wrongly marked inadvertently, although in this case he can let the customer know that it is a mistake. (Incidentally, what would be the position if the goods displayed were dummy packets and a customer insisted on taking one of those out of the window?) Mr. Mortimer says that there is no excuse for retailers selling one box of a proprietary pill and then ordering another from their supply house. I have a drawer full of assorted proprietary pills stocked in twelfths or sixths of a dozen; their turnover is slow, perhaps only one or two of each make a month, but I am compelled to stock them for the odd customer. Is it suggested that I should order parcels of each make, locking up capital? Another variation of this problem is the number of proprietaries of the same kind, for example the many combinations of aspirin with other drugs; none of them achieves a turnover worth speaking of. Under the heading "Qualified and Unqualified Retailers" Mr. Mortimer says that many retailers who have been indentured apprentices are legitimately carrying on their business, i.e., they are legally carrying on as unqualified drug stores. It may be so, but it is only a step further to the many retailers who have served in chemists' shops without having been indentured and have set up on their own account as unqualified traders, and one more step includes any shopkeeper. Any effort put forward with a view to confining pharmaceutical supplies to qualified chemists must be done on the basis of "qualified or unqualified" without any further distinction or exemption, or the effort is useless.

Yours, etc.,

DISTINCTUM (5/9).

Dangerous Goods

SIR,—Your warning about "The Sale of Dangerous Goods" (*C. & D.*, September 16, p. 371) is timely. I have seen one or two bad accidents occur through the careless opening of bottles of liq. ammon. fort. in hot weather, and since then I have made it a rule when selling such articles as ammonia, spirit of salt and chloride of lime to warn the customer about the care necessary in opening the container and in using the article. Some of them dismiss my warning with the remark that they are accustomed to use these things and know all about it; here and there a customer is frankly amused at my caution, but in such cases I tell them that I consider it my duty to warn them, and then if any accident arises it is their responsibility and not mine. However sceptical they may be about the necessity for care, the idea of being responsible for anything generally impresses them.

Another article which may cause trouble is a mixture of hydrogen peroxide and ammonia; one gets inquiries for it over the counter. It has been known to burst the bottle, and it is wise to supply them separately.—Faithfully yours,

PERAMON (25/9).

Old Pharmacy Drawers

SIR,—When I opened my pharmacy, in the 'nineties, I bought cheaply a range of drawers that had been in use then for quite fifty years. It is doubtful whether I placed in more than 10 per cent. of them the contents indicated by the labels, principally because even in the 'nineties there was no demand for them. I recall "Rad. Anchusæ," "Rad. serpent," "Rad. Ipecac.," to mention but three. The larger drawers were certainly labelled in such a way that they could be used. Thus "Sulph. Sub.," "Potass. Nit.," "Cap. Papav.," "Succ. Glycyrrh." were all useful. Why label drawers in Latin? Bottles are in a slightly different category. Two of my drawers were labelled "Scopulæ" and "Scopulæ Opt.," meaning brushes and best brushes. I can understand a customer reading "Tooth Brushes," for instance, on a drawer and being reminded that he wanted a tooth-brush, but I defy anyone to get any inspiration out of "Scopulæ."—Yours, etc.,

Rus (12/9).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Text-Books

"Antiquus" (C. & D., September 16, p. 366) says that text-books are always a trouble. He is referring to the method of selection of the most suitable works; but text-books are also a trouble from the fact that they are constantly getting out of date. Every time there is a new issue of the B.P. the old works of reference become obsolete; every time there is some new discovery in any of the sciences relating to pharmacy such books require a new edition. One useful method of keeping abreast of the times is to file the pages of the quarterly review which the C. & D. publishes on pharmacy and allied sciences.—To Date (26/9).

In the Napoleonic Era

The article on "Pharmacy in the Napoleonic Era" (C. & D., September 9, p. 348) is fascinating in the extreme, and we are indebted to Mr. Cripps for the informative manner in which he has presented his research work. It is noteworthy that one can now buy ol. ricini per lb. at about the price per oz. a hundred odd years ago, while calomel is listed wholesale to-day at exactly the figure reported in 1810, 9s. per lb. Leeches remain retail at the same figure as in 1810, 1s. 2d. and 1s. 3d. each. The quotation for an opening order contrasts sharply with present-day conditions, when the actual value of drugs and medicines is probably no more than 25 per cent. of the total stock.—Scotia (11/9).

Stramonium and its Tincture

Stramonium of the British Pharmacopœia, 1932, is of such strength that it contains not less than 0.25 per cent. of alkaloids. To prepare tincture of stramonium, B.P., 1932, one is directed to take 200 grams of the leaves and percolate to 1,000 mls. On the basis of the minimum strength of the leaves, 0.25 per cent., this percolate should contain 0.05 per cent. of alkaloids. The Pharmacopœia proceeds to direct as follows:—"Determine the proportion of alkaloids in this tincture by the Assay described below, and add, if necessary, sufficient alcohol (45 per cent.) to produce a tincture of stramonium of the required strength." What is the meaning of the words "if necessary"? If B.P. stramonium has been used—as it should be—this percolate must be diluted at least twice to correspond with the official requirements of the tincture. The U.S.P. directs only 10 per cent. of leaves to be used to produce a tincture of 0.025 per cent. strength.—E. J. P. (26/9).

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

A. C. B. (15/8).—VOLUMETRIC DETERMINATION OF ARSENIC.—In the volumetric determination of arsenic in a compound mixture, the method to be adopted when the liquor contains a large proportion of sulphur must necessarily differ from that used in the absence of sulphur, since the thiosulphate and other compounds formed when the element is heated with caustic soda will affect the iodometric assay. In the absence of sulphur, a suitable volume of the liquid should be neutralised to phenolphthalein, and titrated with N/10 iodine in the presence of a slight excess of sodium bicarbonate. When sulphur is present the arsenic must be separated by distillation. The following process is given in the American publication "Methods of Analysis of the Association of Official Agricultural Chemists" (3rd edition):—

"Weigh about 2 gm. and transfer to a distilling flask. Add a solution of 5.8 gm. cuprous chloride in 100 c.c. HCL and shake to remove H₂S. Connect the flask to a condenser and distil, collecting the distillate in water contained in two flasks in series, the first containing 40 c.c. and the second 100 c.c. Continue the distillation until the volume in the distilling flask is reduced to about 40 c.c., then add 50 c.c. HCL and again distil until the volume is reduced to 40 c.c., and repeat until 200 c.c. of distillate have been collected. Transfer the distillate to a graduated litre flask and make up to volume. Transfer 200 c.c. to a 400 c.c. casserole, add 10 c.c. HNO₃ and 5 c.c. H₂SO₄, and evaporate until white fumes appear. Cool and wash into a 500 c.c. Erlenmeyer flask. Dilute to 100-150 c.c., add 1.5 gm. KI and boil until the volume is reduced to 40 c.c. Cool, dilute to 100-150 c.c., add N/20 thiosulphate drop by drop until decolourised, nearly neutralise with NaOH, add a slight excess of sodium bicarbonate and titrate with N/10 iodine."

H. E. P. (30/8).—FORMULAS FOR FLY SPRAYS.—

Insect powder	...	...	8 oz.
Kerosene	...	...	1 gall.

Macerate for 48 hours, strain, and add:

Methyl salicylate			
Eucalyptus oil, or			
Safrol	...	...	1 oz.
Insect powder	8 oz.
Kerosene	1 gall.

Macerate for 48 hours, strain, and add:

Naphthalene	1 oz.
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A. A. (31/8) is again reminded that he has forgotten to give an address in his letter, and therefore cannot be identified.

Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," September 15, 1883

Proposed Educational Changes

The projects of the Pharmaceutical Society disclosed in their Pharmacy Act Amendment Bill involve an almost revolutionary change in these [education] regulations. It is proposed to make compulsory the passing of the Preliminary examination before apprenticeship; to require candidates for the qualifying examination to go through a curriculum at a recognised school; to divide the Minor examination into two parts, to be held at an interval of time, one part to be written, the other oral and practical; and to abolish the Major examination. The title "pharmaceutical chemist" would be conferred on all who pass the qualifying examination, thus evading the regulations by which chemists and doctors, or those who have passed the present qualifying examination, are not eligible for membership, and are liable to serve on juries.



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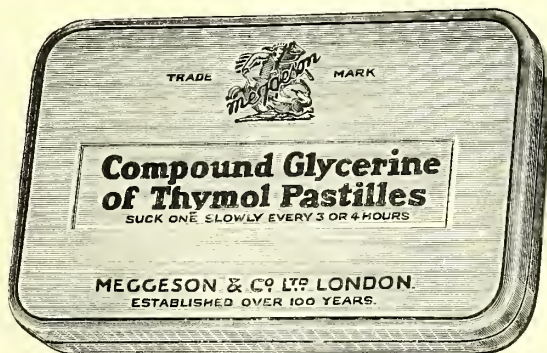
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Boots Pure Drug Co., Ltd.	May, Roberts & Co., Ltd.
British Drug Houses, Ltd.	Oldfield, Pattinson & Co.
Brook, Parker & Co., Ltd.	Pinkerton, Gibson & Co., Ltd.
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Cockburn & Co., Ltd.	Raines & Co.
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E. Fougere & Co., 99-102, Beekman Street, New York	S. B. Penick & Co., Inc., New York
Chas. L. Huisking & Co., Inc., 155, Varick St., New York	Roller & Shoemaker, Phila- delphia
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Cartons, $\frac{1}{2}$ -1 oz. Tablets, gr. 5, bottles of 25 and 100; gr. $7\frac{1}{2}$, tubes of 10.

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GLYCERINE LTD., UNILEVER HOUSE, BLACKFRIARS, LONDON, E.C.4

Telephone: CENTRAL 7474.

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ERGOAPIOL
(Smith)

Protective Mark
Patented in U.S. and
Foreign Countries.

Ergoapiol (Smith) is identified by the letters "M. H. S." raised in the gelatin on the inside of each capsule—thus—



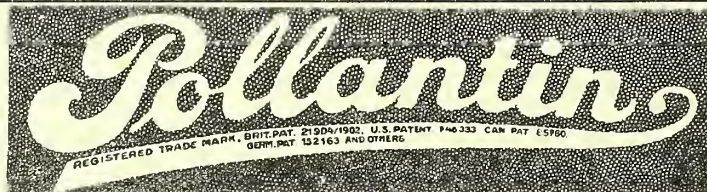
Capsule cut in half thru the seam, showing initials.

Capsule intact, showing no mark objectionable to the physician.

[Ergoapiol (Smith) is to be had only in packages of twenty capsules each—never supplied in bulk or other form.]

MARTIN H. SMITH CO., New York, N. Y., U. S. A.

In
Liquid
Powder
Ointment



For
External
Use
Only

SPECIFIC SERUM FOR TREATMENT OF

HAY FEVER

For Literature and Prices apply to the distributing Agents:

WILLOWS, FRANCIS, BUTLER & THOMPSON, LTD.

73, 75 and 89a SHACKLEWELL LANE, LONDON, E.8

Points to consider when ordering

TABLETS & PILLS.

Quality - Your reputation as a Pharmacist demands that you *sell only the best.*

Price - Your business acumen insists that you do not pay more than is necessary.

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You can be satisfied on all these points by The Cooper Laboratory, whose name is synonymous with Quality and whose business, whilst being large enough to sell at competitive prices, is still conducted *personally*, thus ensuring careful and accurate attention to your smallest wish.

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And be ready for the Autumn and Winter Business.

Special Quotations for Quantities.

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*is an Important and Growing
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LENNONS,

the Old Established Chemists, cover the whole of the Country. They have Efficient Wholesale Facilities for Intensive Distribution and Distinctive Retails in the Important Towns



Those who wish to exploit the Market or increase their present business should write the London Office:—

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Enquiries are invited for

ASPIRIN AND CASCARA TABLETS

IN BULK OR PACKED.

A Customer writes:—"Re Aspirin Tablets. Your sample was one of the best we have ever had, we anticipate doing good business with you if you can maintain that quality."—WE CAN, AND MEAN TO!!

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Private formulae Pills and Tablets carefully and accurately prepared at lowest possible prices.

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We make all varieties of tablets, Plain, Sugar or Chocolate Coated, and shall be pleased to quote for any formula. Prices low, quality the highest. Enquiries welcomed for thousands or millions.

COMPRESSED TABLETS

OF

Our Aspirin tablets disintegrate readily in water and are guaranteed to be made with the finest Acid Acetylsatic B.P. They are tasteless and odourless, and each tablet contains the specified quantity of Aspirin. We offer at extraordinary prices and can save you money.

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White
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THE RECOGNISED LEADING

HORMONE-GLAND Preparation

For the Treatment of all NEURASTHENIC DISORDERS
SILVER FOR MEN — GOLD FOR WOMEN

PRICES: Box containing 35 Tablets - 5/-
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SOLD ALL OVER THE WORLD

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**Wholesale
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1/3 Size
11/6 per dozen net
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Manufactured only by

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WORLD-FAMED BLOOD PURIFYING MEDICINE

'BLOOD MIXTURE'

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FOR SALE IN GREAT BRITAIN

(BY CHEMISTS ONLY)

	Retail	3 doz. Cases	12 doz. Cases
'Clarkes' 'Blood Mixture'	3/-	£4/1/-	£15/6/-

BRAND
(LIQUID OR TABLETS)
NET. CARRIAGE PAID. PACKING FREE

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'Clarkes' 'Blood Mixture'	3/-	27/-	25/6
BRAND			
" " " 12/-	108/-	102/-	
" " " „Tablets 3/-	27/-	25/6	
'Clarkes' Skin Lotion	- 1/3	11/6	10/6
BRAND			
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BRAND			
" " -	- 3/-	27/-	25/6
" " -	- 5/-	45/-	41/6
'Clarkes' Aperient Pills	- 1/3	11/6	10/6
BRAND			
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'Clarkes' Medicated Soap			
Box 3 Tablets	2/6	8/-	7/6
Single Tablet	1/-		

Orders may be assorted as desired at above rates, provided the minimum values reach £4/1/- or £15/6/- respectively.

Carriage Paid. Packing Free
Terms—Strictly Net, Monthly Account

Order Your Supplies NOW, either Direct
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The Lincoln and Midland Counties Drug

COMPANY, LIMITED

PARK STREET, LINCOLN

Telegrams: 'Lindum, Lincoln.'

Telephone: Lincoln 55

BONUS
OFFER

expires 30th September

Have you ordered your bonus parcel to ensure an 8½% extra profit on this fast-selling remedy for colds? Orders for six dozen and over received by any P.A.T.A. wholesaler up to 30th September, with an undertaking to give a display from 1st to 15th November, will be filled 13 to the dozen. Goods will be shipped on any given date up to 15th November. It will pay you to order your winter's supply now.

This winter Vick brand Vapour-Rub press advertising will be even stronger than before. 1,200,000 more samples will be distributed house to house. Display-material is excellent and adequate. What may we send you to help you to get your share of the increasing sales?

Now
Another
Bonus on



We predict that this new member of the Vick Family will earn new profits for you because it is

A Good Product,
tried and tested for over two years;

Selling at a Fair Price,
a large package (2½ oz.) for 6d; with a Fair Profit for you;

Attractively Packaged,
protected by cellophane, and conveniently displayed;

Backed by the Vick Name,
and the goodwill of 2,000,000 users of Vick brand Vapour-Rub;

Supported by Strong Advertising,
including a press campaign in National Sunday, Weekly and Provincial papers; 700,000 free samples to chemists to distribute to their customers; special inserts in all Vick brand Vapour-Rub packages;

FREE
to YOU

We want you to see for yourself how different Vick brand Lozenges are—delightful to the taste, effective in relieving promptly dry, husky, tickling throats. Within the next fortnight we shall send you a free package and full details of prices, discounts and bonus. To ensure that you will not be missed, please send a card to Newberys Wholesale, 31-33 Banner Street, London, E.C.1.

Put on your counter in their attractive dozen-container, Vick brand Lozenges will sell themselves.

AN INVITATION

Please call at our Stand 31 at the
Chemists' Exhibition and see for yourself.



NUMOL

These are given away!

Chemists who are interested in the sale of NUMOL and Pinelyptus Pastilles should write for particulars of the

WINTER BONUS OFFER

A copy of the new Pharmacopœia is being given free for £10 orders

THIS OFFER CLOSSES ON OCTOBER 21st, 1933

Write to NUMOL LIMITED, Elswick Road, Newcastle-on-Tyne

The Astounding "Repeat" Business of HERBARAS

FACTS THAT WILL INTEREST YOU

There is a growing demand among critical people for a natural treatment for constipation ● This demand stimulated by our educational advertising has exceeded expectations ● In 3 months only, Trade "Repeat" business has increased by 823%! ● The Herbaras treatment is the emollient action of seeds of a selected plantago type ● It is being increasingly prescribed and recommended by the Medical and Nursing professions. ● THE GOODWILL OF EVERY LOCAL ORDER IS HANDED OVER TO THE LOCAL CHEMIST.

P.A.T.A.
TERMS

1/9	($\frac{1}{4}$ lb. packet)	- -	15/9	per doz.
3/-	($\frac{1}{2}$ lb. ")	- -	27/-	" "
5/-	(1 lb. ")	- -	45/-	" "
9/6	(2 lb. ")	- -	85/6	" "

All orders over £1 NETT sent Carriage Paid.

Counter or Window Display Terms on application.

JOHN W. LONGMAN LTD.

Overseas Produce
Merchants & Importers

C.D. CLYDE HOUSE,
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JONES *for* METHYLATED SPIRIT

ALL STRENGTHS IN STOCK
PROMPT DELIVERIES IN CASKS,
DRUMS OR TANK LORRY

Send your enquiries to

JONES & CO. (METHYLATORS) Ltd., Bow, London, E.3

Telegrams: "Methspirit, London."

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A PERMANENT 'ASPRO' DISPLAY

MEANS DOUBLE 'ASPRO' SALES AND MANY NEW CUSTOMERS FOR OTHER LINES AS WELL

'ASPRO' is the most powerfully advertised line of its kind in the world. Over 300 papers, with a total circulation of more than 32,000,000, carry the 'ASPRO' message several times monthly into almost every home in the country. Display 'ASPRO' continuously in your window and shop, and you will benefit from this enormous campaign just as though you paid for the advertisements yourself. Not only will your 'ASPRO' sales be doubled, but the display will bring new customers to your shop who will purchase other lines as well. This has been proved by many enterprising chemists. Write us to-day for our current window display and test it for yourself. You will see how quickly the public respond to the 'All-British' appeal of 'ASPRO.' There are also frequent changes of window stickers and giant cartons available.



'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents—**GOLLIN & CO., Pty., Ltd.** ('Aspro' Dept.) SLOUGH, BUCKS.
Phone: SLOUGH 668.

Made by ASPRO LTD., SLOUGH, ENGLAND.

No proprietary right is claimed in the method of manufacture or the formula.



'ASPRO' IS ALL BRITISH

For OVER 75 YEARS

Dr. J. Collis Browne's
CHLORODYNE

has maintained a

WORLD-WIDE REPUTATION

TO-DAY'S DEMAND BEING
GREATER THAN EVER.

**ARE YOU GETTING
YOUR SHARE OF
THIS INCREASE?**

Be sure you hold stocks
to meet the demand and
remember that

Dr. J. Collis Browne's
CHLORODYNE

IS ONLY SOLD THROUGH CHEMISTS

SIZES 1/3, 3/-

Order from your Wholesaler
with other goods.

SOLE PROPRIETORS:

J. T. DAVENPORT Ltd.

UNION STREET, S.E.1

INNERCLEAN

THE NEW
Intestinal Laxative

RETAIL PRICE 3/-

TRADE PRICE 27/-

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LIMITED

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Petroleum Jelly

"SALVO PETROLIA" BRAND

The Perfection of Petroleum Jelly

PACKED IN BARRELS, KEGS, OR
SMALLER PACKAGES IF DESIRED

Manufactured solely by

THE **DEE OIL** CO. LTD.

DELTA WORKS, BOOTLE, LIVERPOOL

Phone: Bootle 186 Wires: "Cestrian, L'cool"

LONDON OFFICE: 11 POULTRY, CHEAPSIDE, E.C.2

Phone: City 8455

OTHER GRADES OF
PETROLEUM JELLIES, WHITE BASES, ETC.
WHITE OILS, B.P. & Technical qualities

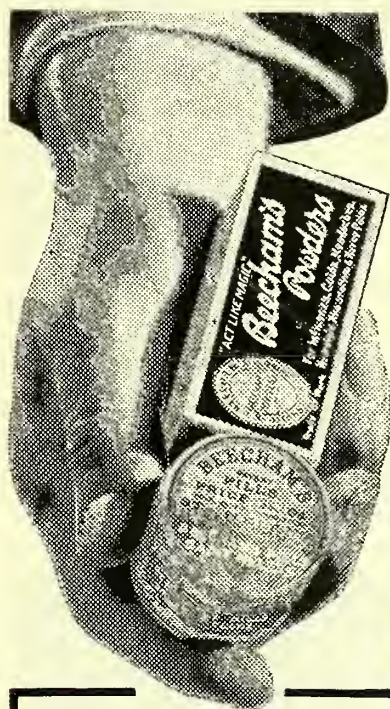
Samples & Prices on Application

Oleum Deelinae (Dee Oil)

the unfailing cure for Eczema

to increase your
DAILY PROFITS

display



Beecham's
PILLS

AND

Beecham's
POWDERS

TRADE TERMS

BEECHAM'S PILLS
1/3 Size ... 11/9 Per Dozen
3/- " ... 28/- " "
5/- " ... 54/- " "

BEECHAM'S POWDERS
1/3 Size ... 11/9 Per Dozen
5/- " (Tablet Form) " "

BEECHAM'S COUGH PILLS
1/3 Size ... 11/9 Per Dozen
3/- " ... 28/- " "

Less 2½% Discount and 5% Window Display Allowance. Minimum Order £2-0-0 value. Monthly Account. All goods packed free and sent carriage paid. Stock more—show more and sell more Beecham's Pills and Beecham's Powders.

BEECHAM'S PILLS

A leading seller for sixty years. They provide a quick turnover, good profits, no bad stock. Keep a showcard in window or on your counter.

BEECHAM'S POWDERS

Beecham's Powders have the confidence of the public for Influenza, Colds, Chills, Headache, Lumbago, Rheumatism, Nerve Pains, etc. Made from the finest ingredients obtainable. Should be shown daily in your establishment.

BEECHAM'S PILLS, LTD.
ST. HELENS, LANCASHIRE.

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now being advertised to
the Medical Profession

ACECOLEX

A trophic paste containing Acecoline for the treatment of
Varicose Ulcers, Atonic Wounds, etc.

Tubes of 35 gm.	Retail 6/-	Wholesale 56/-	per dozen
" 105 "	" 13/6.	" 126/-	"

HYPOTAN

Bromide Salts of synthetic Choline derivatives with Chloral
for the sustained relief of Arterial Spasms.

Bottles of 44 Tablets. Retail 6/- . Wholesale 57/- per dozen

Your co-operation in promptly obtaining
supplies when required will be appreciated.

Telephone: Holb. 6011. Telegrams: Ampsalvas, London

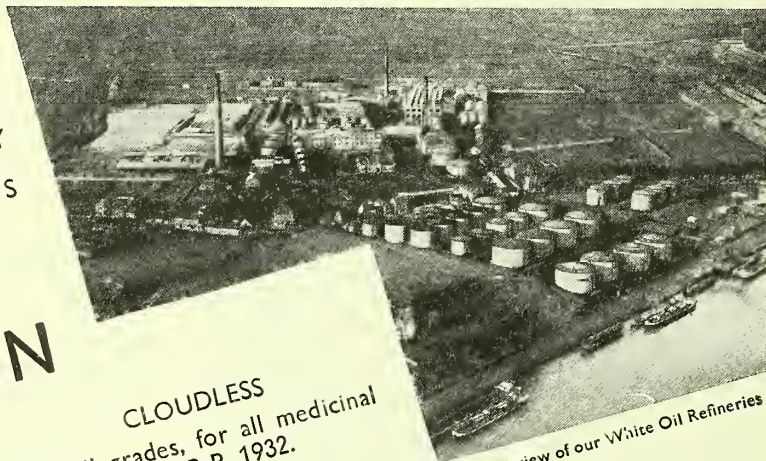
THE ANGLO-FRENCH DRUG CO. LTD.
11-12 Guilford Street, London, W.C.1IMMEDIATE DELIVERY
FINEST QUALITY
COMPETITIVE PRICESLIQUID
PARAFFIN

B.P. 1932

HIGHEST VISCOSITY

CLOUDLESS
Daily delivery from stock of all grades, for all medicinal
purposes. Guaranteed to comply with B.P. 1932.

TECHNICAL OILS

Our comprehensive range includes Odourless, Tasteless,
Water-White, Oils of different Viscosities suitable for
Emulsions, Slab and Toilet preparations. Our White and
Half-White Oils are specially recommended for Brilliantine
and other manufacturing purposes.

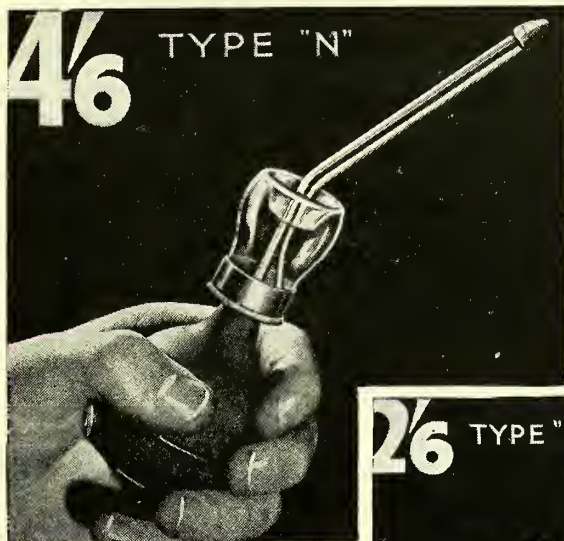
Aerial view of our White Oil Refineries

PURFINOL LTD.
LONDON, E.C.2

80 BISHOPSGATE
TELEPHONE: LONDON WALL 7132 - 7133
TELEGRAMS: "INVATORE STOCK"

THE "MILLETT" ATOMISER

BRITISH MADE



The Demand has started . . . enquiries and orders have been received from all over the country . . . others have realised what we knew—the "Millett" Atomiser is good stock.

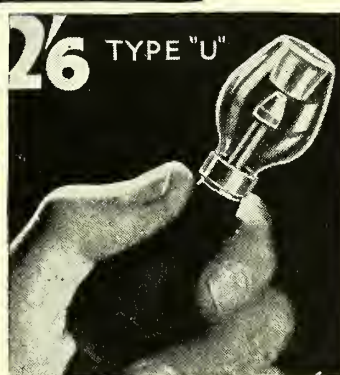
Millett Atomisers require only one hand for use, and the contents will not spill in any position.

The fluid is carried in a liberal glass bulb, and any type of liquid is perfectly atomised. All metal parts are chromium plated, and only the best rubber and glass is used. You cannot obtain a better atomiser at any price.

Model "N" for throat and nose use. Easily sterilised by unscrewing the glass vessel from the base.

Model "U" for general and nasal use.

It is only necessary to put the exact dose into the atomiser.



Sole Midland Agents:
SOUTHALL BROS., &
BARCLAY LTD.

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& Warburton Ltd.
MAY,
ROBERTS & CO., LTD.

TRADE TERMS—LIST LESS 33 $\frac{1}{3}$ %

Atomisers

LIMITED

Proprietors of the Millett Atomiser Patents
Makers of fine Sprayers and Atomisers

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LONDON, W. 1

Telephone - - - - - GERRARD 1054

**STOCKED
FOR BETTER BUSINESS
BOUGHT
FOR BETTER HEALTH**



Retailers of Box's Indigestion Pills soon learn that the line is a steady repeater, and customers come back because they cannot obtain supplies from every chemist or stores, Obtainable from wholesalers or direct from the proprietor

W. H. BOX

GIANT PILL
MANUFACTORY,
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PLYMOUTH

Telegraphic Address:
"Giant," Plymouth

Display material free on request.

**BOX'S
INDIGESTION
PILLS**

Whose Money?

WHEN mistakes, forgetfulness and temptation take toll of the takings . . . whose money is short?

Wholesalers, assistants, rent, rates, taxes and other overheads must be paid. Whenever cash leakages occur IT IS THE PROPRIETOR WHO LOSES.

That is why thousands of retailers throughout Britain declare that their adoption of a

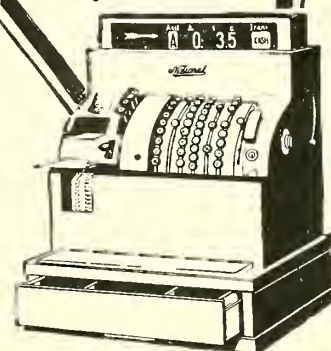
National

CASH REGISTER

is the best investment they ever made.

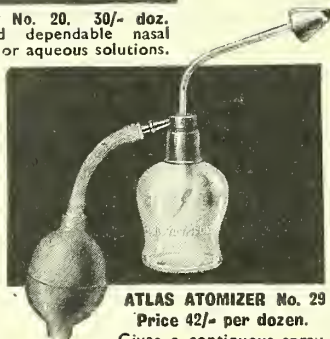
"NATIONALS" embody every Cash Register feature of proved value. They not only reveal and stop profit leakages . . . they enable alert retailers to INCREASE profits, and to do it with much less work and worry. Full details about a "National" that will meet your needs exactly await your request. Write and tell us your problems to-day. Every machine is offered on easy terms, and enquiry involves no obligation.

Address enquiry to:—
**NATIONAL CASH
REGISTER Co. Ltd.**
225 Tottenham Ct. Rd., W. 1
Phone: MUSEUM 9811

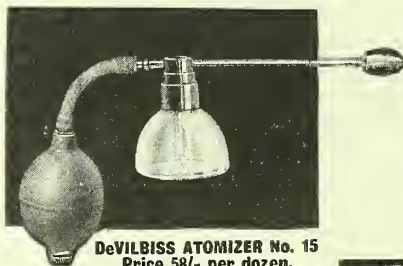




ATLAS ATOMIZER No. 20. 30/- doz.
A compact and dependable nasal atomizer for oils or aqueous solutions.

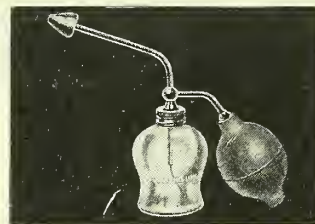


ATLAS ATOMIZER No. 29
Price 42/- per dozen.
Gives a continuous spray with oils or aqueous solutions. Does not drip.



DEVILBISS ATOMIZER No. 15
Price 58/- per dozen.
Nose and throat Atomizer for either oils or aqueous solutions. Adjustable tip permits spraying in any direction.

The name DeVILBISS stands for all that is best in Atomizers. DeVILBISS means reliability, sound workmanship, long life and correct design gained by more than 42 years' experience in the manufacture of Atomizers to meet every requirement of the medical profession.



ATLAS ATOMIZER No. 25. Price 34/- per dozen.
Continuous spray atomizer for either oils or aqueous solutions.

CVS-57

With all their advantages DeVILBISS Atomizers are reasonably priced. They are **ABSOLUTELY GUARANTEED** and will be repaired or replaced free of charge if found unsatisfactory. Conspicuously displayed, DeVILBISS Atomizers sell themselves and their use stimulates the sale of the solutions used in them.

AEROGRAPH COMPANY LIMITED

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Sole Distributors of DeVilbiss Products in the United Kingdom

PURE ORANGE WINE

A. MILLAR & CO., LTD., DUBLIN

(VINUM AURANTII B.P. 1914.) Prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

'CUTTERS' (REGISTERED) **'CUTTERS'**
THE ORIGINAL
AND ONLY
'CUTTERS'

HEAD & NERVE POWDER

FROM YOUR WHOLESALE, OR SEND DIRECT TO PERRY'S POWDERS, LTD., LEEDS

CALDER YEAST TABLETS

50 Tablets 7d. 100 Tablets 1s. 0d.
Discounts: Retail 33 $\frac{1}{3}$ %, Wholesale 16 $\frac{2}{3}$ %. Carriage paid on all Orders.

Yeast improves the Complexion ~

Supplies of Calder Yeast Tablets may be obtained through Wholesalers and—from The United Yeast Company Ltd., London, Birmingham, Bristol, Leeds, Manchester & Newcastle.

Calders' Yeast Co. Ltd., INVERKIP STREET, Glasgow, C.5.

*Doctors have known and prescribed
Argyrol for over twenty five years*

NOW, its wider use
means they will prescribe
it even more!

As medical science advances, Argyrol is used increasingly by Hospitals and Physicians to combat the virulent and obstinate strains of micro-organisms which are found to invade the delicate mucous membranes. The Medical Profession is now being reminded by literature and specialised advertising in the principal Medical Journals that Argyrol is an original product, unique in composition and therapeutic effectiveness. Be sure that you have genuine Argyrol brand Silver Vitellin available for prescriptions.

ARGYROL

Registered Trade Mark

brand **SILVER
VITELLIN**

7/6 per oz. c.f.

Sole Distributors : FASSETT & JOHNSON LTD., 86, CLERKENWELL ROAD, E.C.1

PHOSPHATE OF SODA, Pure


For Food Purposes

ASK FOR SAMPLE AND PRICES

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL

Telephone: Giffnock 414 (2 lines). Telegrams: "Perryope, Nitshill."



**CHERRY'S
SLUMBER-TEA**

A profitable, easy selling,
all-the-year-round line, with an ever
increasing demand. A counter display will
readily pay you. Particulars, etc., from
CARTER BROS., SHIPLEY, Yorks

ANADIN Brand TABLETS



ANODYNE COMPOUND

For Headache,
Toothache, Earache,
Neuritis, Neuralgia,
Colds, Rheumatism,
Pains after Tooth
Extraction.

Manufactured by

ANADIN LTD. CHENIES ST. LONDON, W.C.1

Paraffinum Liquidum B.P.

ALL GRADES
SAMPLES & PRICES

On application to —

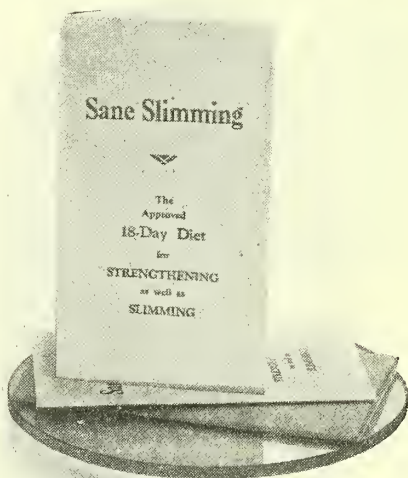
STERN'S LTD

16 Finsbury Square London E.C.2

Telephone: National 7644 (7 lines).
Telegrams: "Centumvir, Telew,
London."

WHOLESALE ONLY

Here is an excellent method of Getting Customers into your Pharmacy



Display these Folders on weight reduction in your Establishment. They contain, in addition to an approved diet scheme, A DAILY WEIGHT RECORD CHART, so that all who are interested in healthy slimming are induced to visit you daily to test their weight.

SEND FOR A SUPPLY TODAY

The Diet is a modified form of that known as the Hollywood Diet, but the inclusion of **ENERGEN BREAD** removes objection, and is approved by the Medical Profession.

Your sales of Energen Products will increase.

Energen

FOODS Co., Ltd.

WILLESDEN, LONDON, N.W.



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Postlip filterings are stocked by all the leading Wholesale Laboratory Dealers.

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You will be
asked for

HONICOSE

THE PERFECT FOOD

Honicose is a carefully blended preparation of Glucose and Honey (or Malt) and as it is a perfectly balanced food and most palatable, is a marked advance over all other Glucose preparations.

It has been most favourably commented upon by the Medical Profession and is being prescribed by doctors everywhere.

A comprehensive press advertising scheme is now being launched and to enable you to reap the benefit, we have prepared a display showcard for your use which will be gladly sent on request, together with literature.



HONICOSE PRODUCTS
(SALES) LTD.

26 COOPER ST., MANCHESTER

BOWRING'S — LIVERPOOL

PRODUCERS & REFINERS OF THE LARGEST RANGE OF

STANDARDISED VETERINARY COD LIVER OILS

SPECIFICATIONS AND VITAMIN POTENCY GUARANTEED

*Write for samples and particulars of methods
employed for assaying Vitamin Potency, to*

C. T. BOWRING & Co., Ltd.
20 CASTLE STREET
LIVERPOOL

Telephone :
BANK 1336
(4 lines)

Telegrams :
"BOWRING"
LIVERPOOL

LOSALL'S SALT

Sells freely and readily. PAYS 50% ON OUTLAY
An infallible remedy for

**GOUT,
RHEUMATISM,
ECZEMA
and SKIN
AFFECTIONS.**

P.A.T.A.

4 oz. tins 1/-
8/- doz. net
8 oz. tins 1/9
14/- doz. net
Bottles 2/-
16/- doz. net




Attractive advertising matter supplied on application
SOLD EVERYWHERE

Manufactured by
LOFTHOUSE & SALTMER, Ltd.
HULL

**YOU WANT EXTRA SALES
GOOD PROFIT
VERY WELL—TELL EACH CUSTOMER
ABOUT VIGGORMALT AND PUT**

AN EXTRA 1/- 2/6 5/6 or 8/-

INTO YOUR TILL with certainty of REPEATS
YOU MERELY TELL HER SHE CAN EASILY MAKE

PURE BEER
FOR **1^d** PER ALE or PINT STOUT


FROM VIGGORMALT
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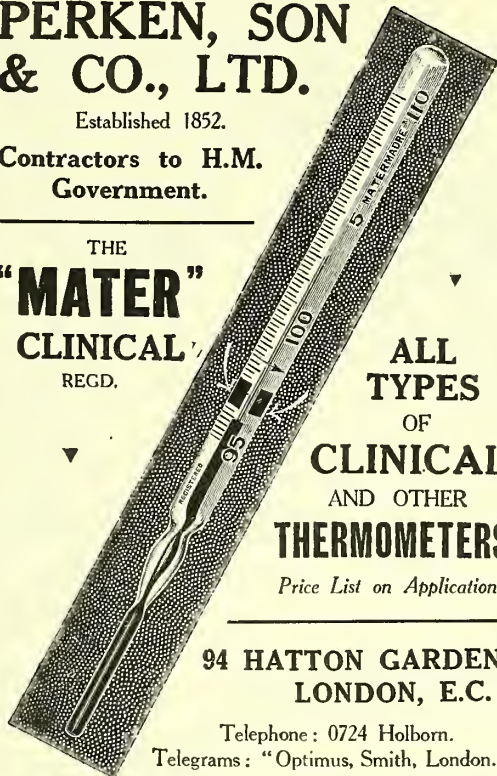
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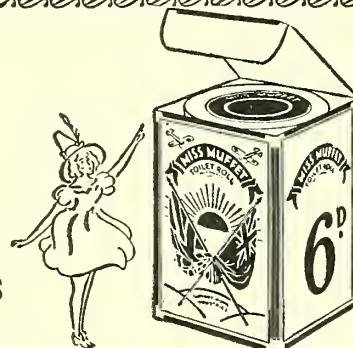
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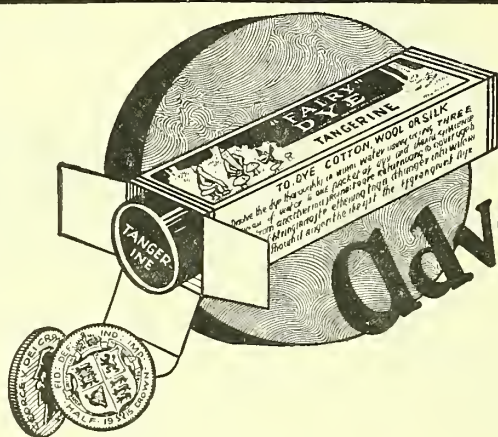


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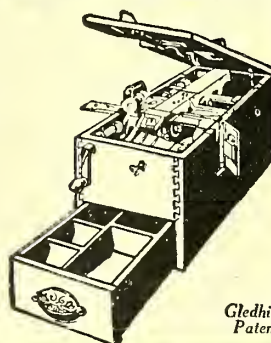


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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

SEPT. 30,
1933

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1.—CLAPHAM (NEAR).—Middle-class Retail Business with large N.H.I. connection; Kodak, Rexall and Ucal Agencies; returns approximately £3,200 per annum; good profits; double-fronted shop, handsomely fitted and fully stocked; good living accommodation; vendor owns the property and will sell same or grant a lease; the rent would be about £1 per week for the shop and stores; price £2,000, or valuation terms entertained; vendor purchased another business.

2.—EAST LONDON (DEATH VACANCY).—General Retail Business with Kodak Agency and N.H.I. Dispensing; returns approach £900 per annum under management; single-fronted shop; rent £38 per annum; accommodation over sublet at 16s. per week; price for quick sale £200.

3.—SOUTH LONDON.—General Retail Business; returns approach £3,700 per annum; gross profit 33 per cent. to 35 per cent.; attractive pharmacy; stock and fittings estimated to be worth about £1,500—£1,600; good house; 27 years' lease; rent £125; price £3,300.

4.—MILL HILL (NEAR).—Medium-Class Light Retail Business with Kodak Agency; returns under management approximately £1,450 per annum; scope for increase; gross profit 36 per cent.; double-fronted shop, handsomely fitted in mahogany and fully stocked; held on lease; price for quick sale £500; stock and fixtures alone worth £850; further details on application.

5.—BRITTON (NEAR).—Cash Retail Business with Panel Dispensing and Kodak Agency; returns under management exceeded £3,000 last year; main-road position, offering scope for increase under personal supervision; double-fronted shop, recently redecorated; small living accommodation; rent £65, to include house; price £1,750.

6.—WESTMINSTER (NEAR).—Medium-Class Cash Retail Business with very large Panel and Kodak Agency; established about 100 years; returns exceed £2,700 per annum; very good profits; accountants' figures; double-fronted corner shop situate in prominent position in main road; new lease would be granted and the rent for the shop and house would be about £1 per week; price £1,500, or valuation terms entertained; ill-health cause of sale.

7.—PURLEY (NEAR).—Light Retail Business with Kodak Agency; established 50 years; returns approximately £1,850 per annum; very good profits; modern double-fronted shop, well fitted and fully stocked; spacious living accommodation; rent £100; long lease; price £1,450.

8.—MIDDLESEX (GOOD CLASS TOWN).—High-Class Retail and Dispensing Business with Kodak Agency; established nearly 100 years;

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9.—BOURNEMOUTH (GROWING SUBURB).—Light Family Retail Business situate in prominent position in vastly improving area; increasing turnover, last year being £2,339; very good profits; large double-fronted shop, well fitted in mahogany and amply stocked; vendor owns the premises and would sell same or grant a lease at a rental to be agreed; valuation terms entertained; further details on application.

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13.—HANTS (NEAR RINGWOOD).—Light Country Retail Business with N.H.I. and Kodak Agency; returns about £1,100 per annum; scope for increase; net profit about 25 per cent.; good living accommodation; rent £26 per annum; held on lease; price £900.

14.—SURREY (FEW MILES OUT).—Middle-Class Retail Business with N.H.I.; Kodak and Selo Agencies; returns, present rate, £17 per week, increasing; attractive single-fronted shop, nicely fitted in mahogany and well stocked; modern living accommodation; held on lease at reasonable rental; price £475; family reasons for sale.

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(C3) LONDON, W.—Modern pharmacy, with living accommodation, situated in middle-class residential district; turnover for year ended August, 1933, upwards of £1,600; present returns approximately £35 weekly, and steadily increasing; rent £95; reasonable purchase price.

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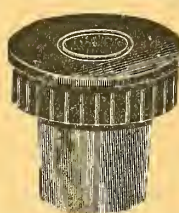
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SERVICE FOR CHEMISTS "All" that the term implies.
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LONDON, W.—£50 for fixtures and fittings; stock at value, £200 to £300, to suit purchaser; rent £55, rates £28; lease 3½ years; lock-up shop; good window and passing trade; good Toilet and Photo; present takings £18 per week, has done more; offered at this low price for quick cash sale; a really good chance for young man; owner has other shops. Write for address and appointment to view. 509/21, Office of this Paper.

NOTTINGHAM.—Drug Store, old established, well stocked; going concern; net profit 50s. weekly; scope for increase; shop and house, 3 bedrooms, 15s. 6d. weekly, clear; accommodation optional; cash price £250 all at. Penhale, 20 Hungerhill Road, Nottingham.

N.W. LONDON. Lock-up Drug Stores; takings average £12 per week under female management; good-class district; double-fronted shop; lease 19 years; price for quick sale £50; stock and fixtures by arrangement or valuation. Write only in first instance, 17 Minet Avenue, N.W.10.

S. MIDLANDS.—Country town; Old-established Chemist's Business; rent and rates £40; small living accommodation; good fittings; needs working up; stock £200; inspection arranged for genuine buyer; good reasons for disposal; purchase price £200 or valuation; £200 approximately per annum net. 510/18, Office of this Paper.

SOMERSET (beautiful spot).—Chemist's Business; returns £1,000 yearly, including small N.H.I.; rent and rates inclusive £55 p.a.; long lease; at present lock-up, but house can be had if required on very advantageous terms; busy shopping area; price £525. Brierley, Chemists' Valuer, 135 Queen Street, Newton Heath, Manchester. Tel.: Failsforth 1913.

WEST MIDDLESEX (London 9 miles).—Business in select growing neighbourhood, established 14 months; good modern living accommodation, garden, garage; increasing returns; no opposition; Kodak, Ucal Agencies; modern oak fittings; rent £104 per annum; genuine reasons for disposal; vendor wishes to effect a quick sale, so will accept valuation; worth investigation. 228/220, Office of this Paper.

YORKS (West Riding).—Working-class district; takings £12 weekly, plus N.H.I., average 400 monthly; at present under management as branch, and could be considerably improved under own proprietorship; price £475 or stock and fixtures at valuation, plus £50 goodwill; stock about £350 could be reduced if desired. Locum required until sold. 509/2, Office of this Paper.

AN Excellent Prescribing Working-class Business for sale; London suburb; returns last year £1,380; Cash and N.H.I. still increasing; 7 years' lease at £80, or could be purchased; new corner premises; could be sublet; price £500; £100 could remain. 228/217, Office of this Paper.

FOR SALE.—Small Wholesale Business selling to Chemists, indigestion proprietaries (Pills, Tablets, Powder) under registered name; 250 customers on books, unlimited scope for expansion; price for quick sale £500 all in, which includes 300 dozen stock, 2,000 three-colour litho showcards, 1,000 three-colour display stands, 30,000 cartons, 20,000 labels, 2,000 corrugated outers, typewriter, registered trade mark and goodwill. 508/31, Office of this Paper.

LOCK-UP SHOP, Barnsbury, district; 19 years' lease unexpired; £60 inclusive rental; £300 or near offer, including stock and fixtures. Apply R. G. Davies, Solicitor, 388 City Road, E.C.1. (Clerkenwell 4171.)

PHARMACIST with other interests would consider the disposal of City Pharmacy producing about £750 net profit per annum. 228/213, Office of this Paper.

S. F. CLARK, Richmond (as above), invites correspondence from Pharmacists relative to businesses registered with him in most London districts, also Dorset, Berks and Hants. Buyers please state exact requirements as to district preferred, class of business desired, &c. Practising Pharmacists desiring change, or contemplating retirement, willingly visited by appointment, all matters being personally and confidentially treated.

£150 ALL AT. Small Compact Pharmacy, N.H.I., Photographic, with scope for Optics, industrial neighbourhood; lease; living accommodation (could be sub-let), making rent of shop and backroom 12s. weekly; owner has other interests. Call or write, 94 Torriano Avenue, N.W.5.

£110 for Quick Sale of Small Pharmacy, Notting Hill, London; nice double-fronted shop, lock-up; low rent; well stocked; suitable Chemist or Drug Store; plenty of scope for increase. 510/7, Office of this Paper.

BUSINESSES WANTED.

AT ONCE.—Sound and genuine Business required by Advertiser (private), in or near London, with annual turnover of £4,000-£5,000; cash available for immediate purchase of right business; or suitable partnership in larger concern would be entertained; all replies treated in strictest confidence; bankers' references exchanged. 509/39, Office of this Paper.

ADVERTISER seeks Good-class Business, London or near; turnover £5,000; strictest privacy observed; cash available. 508/3, Office of this Paper.

CHEMIST'S Business required; Manchester area or near; must be sound proposition and bear strictest investigation; large N.H.I.; living accommodation; all replies strictly confidential. 510/17, Office of this Paper.

PRIVATE Chemist requires a Business in London, the West End or Suburb at present showing a minimum turnover of £3,500 per annum, preferably more; full capital available for immediate purchase; negotiations can be entered into without delay; please write, in strict confidence, suggesting a convenient time for an interview. 228/216, Office of this Paper.

WANTED.—Business, London, West End or hushy district, doing about £100 per week; little Dispensing; full particulars, rent, lease, &c. 228/223, Office of this Paper.

WANTED, small Chemist's Business or Drug Store, with living accommodation; West of England preferred; small capital; or would entertain managership with view to succession. Reply "Rhei," 509/40, Office of this Paper.

WANTED.—Newcastle-on-Tyne district, sound Chemist's Business with good turnover; living accommodation not essential; neglected business considered if offering scope for development; particulars requested; will be treated in strict confidence. 511/14, Office of this Paper.

WANTED immediately, a sound business with a turnover of £3,000 upwards; South of England preferred, but not essential; must bear strict investigation; client is prepared to take over at once and can invest up to £3,000. Write in strict confidence to Berdoe & Fish, 41 Argyle Square, King's Cross, W.C.1.

WANTED immediately, good Businesses, each with a turnover from £2,000 to £5,000; capable of increase; any district, but Eastern or Southern Counties preferred; genuine enquiries; all particulars treated in strictest confidence. 228/204, Office of this Paper.

PREMISES TO LET.

BAKER STREET, W. (off).—Splendid opening for Chemist; capital shop, 17 ft. by 40 ft., and basement, available in Berkeley Court, the newly-erected magnificent block of flats almost opposite Baker Street Tube Station; rent £300 p.a. Apply sole agents, Hillier, Parker, May & Rowden, 27 Maddox Street, W.1. Tele.: Mayfair 7666.

LEIGH-ON-SEA.—A good opportunity for Chemist; lease of shop, with good living accommodation, falls in at Christmas; electric, gas, water laid on; moderate rent; lease to suit tenant; centre of good middle-class district; more than $\frac{1}{2}$ mile to nearest Chemist. Apply 33 Brunswick Road, Thorpe Bay, Essex.

SHOP TO LET AT ELTHAM, S.E.9.—An opening for an enterprising Chemist in established parade; shop 43 ft. by 18 ft.; rear entrance and w.c.; rent, on lease, £110 per annum, exclusive. Apply Field & Sons, Estate Agents, 54 Borough High Street, S.E.1. Hop 1375.

PREMISES FOR SALE.

HAMPSTEAD (Fairhazel Gardens), for investment and part occupation.—Shop, upper part, and good basement for sale with vacant possession of shop, basement and 2 rooms in rear; fine opening for Chemist; lease about 45 years; ground rent 12 guineas; price £1,650. Further particulars Richardson & Co., 9 Goldhurst Terrace, N.W.6.

CHEMIST.—EALING.—Only once in a lifetime comes an opportunity to acquire Modern Shop Premises so well placed and eminently suitable; main-road position in developed district; ample living accommodation; garage space; garden; only £1,350, freehold. Apply immediately to Cliffords, adjoining Station, Alpertown, Wembley 4600.

APARTMENTS.

WHEN YOU COME TO LONDON STAY AT THE HAMPDEN RESIDENTIAL CLUB.

FOR GENTLEMEN, Hampden Street, N.W.1. Close to King's Cross and Euston. 300 bedrooms. 12s. 6d. to 25s. per week, including baths, attendance and boot cleaning. All meals à la carte in dining room. Moderate tariff. Large Club Rooms, Library, Billiards Room, Reading Room and Study for Students. Illustrated Prospectus from Secretary. Euston 2244/5.

SALE BY AUCTION.

5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.

A LARGE number of practically new SHOWCASES and glass COUNTERS, including many which are suitable for Store Chemists, &c., will be sold by Auction by

B. NORMAN & SON

at their Sale Rooms as above

Wednesday next, October 4, at One o'clock.

View Day Prior.

Catalogues on application.

Tel.: Nat. 6463.

AGENCIES.

AN ENGLISH Firm established in Paris for many years, having a good connection amongst Chemists, Perfumers, Wholesalers and Department Stores, is desirous of acquiring the exclusive agency of an English Manufacturer for articles which it could work in connection with its other goods. Is in a position to introduce Medical Lines to Doctors and Dentists, and if necessary could arrange to manufacture and put up any Pharmaceutical or other product. Write to 228/203, Office of this Paper.

DISTRIBUTING Agents, Pharmacist Principal, working Devon, require two or three good Agencies on commission basis; only non-clashing lines considered; goods required suitable for sale by Chemists and Stores; in latter case where no chemist exists; known Medical, Surgical or Veterinary articles preferred; particulars and terms in first instance. 510/11, Office of this Paper.

PARTNERSHIPS.

QUALIFIED Manufacturing Chemist, packing Toilet and Medical lines in London, wishes to partly retire, owing to ill-health; would consider combination with similar privately owned concern or thoroughly sound small limited company; would superintend and manufacture; turnover £2,000; stock, fixtures, &c., £1,000; no liabilities; small remuneration or director's fee, and share; only established genuine businesses considered. 508/32, Office of this Paper.

APPRENTICES.

APPRENTICE.—M. Berry, M.P.S., has a Vacancy open for an Apprentice who has passed the necessary preliminary examination. Apply in writing to 91 Hermit Road, West Ham, E.16.

APPRENTICE wanted; must have passed Preliminary Scientific; very exceptional opportunities in a Pharmacy in West London for suitable applicant; apply, giving details of school training, &c. 228/221, Office of this Paper.

GIRL (16), holding Matriculation, desires Apprenticeship to Chemist; Leeds district. Day, 71 Queen Street, Morley, Leeds.

SITUATIONS OPEN.**RETAIL (HOME).**

HAMPSHIRE.—A good-class Dispensing Business requires a Junior Assistant (single), about 25 years of age; must have had all-round experience; state wages; references and photo where possible; all applications will be answered. W. L. Million, Chemist, Fleet, Hants.

HAMPSTEAD, N.W.—Assistant required for Wednesdays from 3 p.m., Unqualified, gentleman; good-class business; experienced Dispenser and Counterman essential; one who can give other spare time if possible during week or week-ends; aged 23-50 years; salary by arrangement. 228/222, Office of this Paper.

LANCASHIRE Seaside Town.—Qualified Manager wanted, permanent, good-class Pharmacy; smart Window-dresser; one accustomed to quick trade; must have pleasant personality; state age, experience, &c.; replies not answered in 7 days respectfully declined. 509/13, Office of this Paper.

LONDON, N.1.—Assistant, Unqualified gent.; age 23-30; quick and accurate Dispenser N.H.I., good Counterhand and Window-dresser. Apply, with particulars of experience, and salary expected, to 508/37, Office of this Paper.

LONDON, S.E.14.—Part-time experienced Assistant required, Dispensing and Counter; Tues., Wed., Fri. and Sat. 5.30-8.30, alternate Sundays 6 p.m. to 8 p.m.; state age, experience and terms. 511/6, Office of this Paper.

LONDON, W.—Unqualified Assistant, with F.S.M.C. or F.B.O.A. qualification, wanted at once; possible permanency, with progressive opportunities, for energetic man willing to work. Apply, giving age, salary required, photo, etc., to 509/32, Office of this Paper.

MIDLANDS, Suburban District.—Qualified Lady wanted immediately; permanency; state terms and references. 509/14, Office of this Paper.

SOUTH MIDLANDS.—Chemist-Optician for good-class Family Business; applicants must have had previous experience in sight-testing, and be capable of building up a neglected business; state age, height, details of experience, wages expected; all applications treated with strict confidence. 228/209, Office of this Paper.

YORK.—Qualified male required for middle-class Family, N.H.I. and Photographic business; a comfortable post for a man not wanting a big salary; please give usual particulars and salary required. 508/27, Office of this Paper.

A YOUNG Qualified Assistant for good-class Dispensing and Retail. State full particulars, age and salary required to Bone, Chislehurst.

A YOUNG Qualified Man required, not over 25; good address; experienced in Window-dressing; Pharmacy trained; particulars of age, height, experience, salary required. Robinson, 5 Broadway Parade, North Harrow.

AT ONCE.—Qualified, married, Manager required for small, neglected, newly-acquired branch; excellent references wanted and interview essential; good house attached; full particulars first letter; applications not answered 5 days respectfully declined. Foster, 14 Forest Hill Road, E. Dulwich, S.E.22.

APPRENTICE OR JUNIOR just out of apprenticeship, for Dispensing and Counter work; shop in E.1 district; write stating age, references and salary required. 508/34, Office of this Paper.

BRANCH Manager wanted; applicants receiving no reply in a few days are unsuccessful. Shackletons Cash Chemists, Great West Road, Lampton, Hounslow.

CHEMISTRY.—Qualified Assistant required (Male or Female); preferably one with Optical experience, but not essential; must be fully experienced in all branches, Surgical, Photographic, Dispensing, &c. State age, experience and salary to Manager, Ipswich Industrial Co-operative Society, Ltd., 38 Carr Street, Ipswich. Endorse envelope "Chemist."

JOSEPH WALLWORK & SONS, Chemists, Tyldesley, nr. Manchester, require a Junior Assistant (male); an opportunity for one wishing to gain experience; applications not answered by October 10 respectfully declined.

JUNIOR Assistant or Improver (male), about 20, for busy Retail and Dispensing Business, South London; commence £2 weekly; state age, height, details of experience and when at liberty; interview will be required. 510/2, Office of this Paper.

JUNIOR.—Unqualified Assistant, male, required; neat and accurate Dispenser, good Counterman; to commence October 9; wages £2 5s. per week; full particulars, references, etc. Pritchett, Chemist, 28 Abbeville Road, Clapham Park, S.W.4.

LADY Dispenser and Bookkeeper, Hall qualification, required by Doctor living near Croydon. Write, giving fullest details, including age, salary expected, &c., to P.C.B., 91/30, Office of this Paper.

LOCUM.—Qualified Chemist and Optician required; possible permanency. Reply by letter, giving full particulars, stating when disengaged, to W. Linsley, Esq., 308 Earl's Court Road, S.W.5.

QUALIFIED Chemist and Optician required to superintend high-class Pharmacy; permanent progressive post will be offered to suitable applicant; reply giving full particulars of past experience, especially in practical Optics, also age, height and photo if possible. 228/218, Office of this Paper.

QUALIFIED Chemist required, permanent, middle-class business; state lowest wages, etc.; immediate. 57 Sheffield Road, Chesterfield.

QUALIFIED Lady Assistant for Sheffield; good Counter experience and manner essential; busy N.H.I.; no Sunday or half-day duty. Write, stating full particulars and salary required, to 510/33, Office of this Paper.

QUALIFIED Lady or Gent. Assistant required for S.E. London; permanency; state salary and full particulars first letter. 510/38, Office of this Paper.

QUALIFIED Manager required (single) for working-class business near London; indoors; not under 30; reliable and keen business man. Replies to "R. P.," 131 High Street, Uxbridge, Middlesex.

QUALIFIED Young Lady Assistant required for suburban business near Manchester; must be a neat and accurate Dispenser and experienced Retail trade; state age, salary required, full particulars; letters not answered in a week respectfully declined. 510/20, Office of this Paper.

REQUIRED for prominent West End house: (1) Young Qualified Assistant; (2) tall Young Lady of good appearance and expert knowledge of cosmetics and sundries. Both must be good Salespeople with previous very high-class experience and good references. Write BM/PPTK, London, W.C.1.

UNQUALIFIED Assistants required; applicants must be well up in modern pharmacy; energetic and live business men; good salary and commission; permanency. Apply, giving age, full particulars of experience and salary required, to Secretary, Timothy Whites (1928), Ltd., Portsmouth.

UNQUALIFIED Junior Assistant (male), 21-25 years; working-class district, Manchester; please give full particulars, age, height, experience and salary required; applications not answered in 7 days respectfully declined. 510/39, Office of this Paper.

UNQUALIFIED Junior (14-21) required in October, gentlemanly and of good appearance and training, and with sound references; please state full particulars, with photo. Lester, 1 Station Road West, Canterbury.

UNQUALIFIED Lady Assistant wanted immediately, good appearance and Counter manner; must be used to a good-class Family business; if no reply in week, position filled. Particulars to Dispenser, 511/20, Office of this Paper.

WANTED.—Qualified Lady, Pharmacy trained, for a small, good-class seaside business; energetic and keen in business; reply, stating salary required, giving references and age, photo. 511/24, Office of this Paper.

WHOLESALE.

LONDON Representative required immediately; first-class man accustomed to selling to Perfumery Departments of Stores, Chemists and Hairdressers; other representation not objected to if suitable; Scot or Northerner preferred, but principal qualification energy; good salary and commission. 228/219, Office of this Paper.

A LONDON Chemist Sundries House requires an experienced Representative with a sound connection in London (North of Thames area); please state particulars of previous experience, age and salary required. P.C.B., 91/25, Office of this Paper.

A WELL-KNOWN and progressive manufacturer requires one Representative for Western half of London postal districts; 10 per cent. commission plus liberal weekly payment; must have established connection with Qualified Chemists; state age, experience and present connections. 228/208, Office of this Paper.

M.P.S. (young) REQUIRED by Manufacturing Chemists specialising in Tablets and Pills; would be required to do costing and other clerical work in addition to duties in the works; apply giving age and full details of training and experience. 228/207, Office of this Paper.

NORTHERN Wholesale House require Laboratory Assistant; must be thoroughly experienced in large-scale manufacture of all galenicals, &c., &c. State age, experience, wage required, &c., to 228/210, Office of this Paper.

REPRESENTATIVES at present handling one line, or seeking a berth, are invited to co-operate with a Sales Organisation operating in the British Isles handling various non-competitive lines sufficient for an assured income to those who participate; state territory suitable. 508/11, Office of this Paper.

REQUIRED, experienced Tablet Maker and Improver, for Yorkshire. State age, experience, wage required, &c., to 228/206, Office of this Paper.

RETIRED Representatives required; expenses and commission; widely advertised proprietaries; write full particulars of connection and territories. 228/212, Office of this Paper.

WELL-KNOWN Northern Wholesale House requires experienced Tablet and Pill Maker, also Assistant (male or female); give details of experience, &c., on application. 228/211, Office of this Paper.

SITUATIONS WANTED.

RETAIL (HOME).

A.A.A.A.A.—UNQUALIFIED Scot desires situation London district; experienced in Counter, Dispensing, Photography and Window-dressing; able to take charge. "Chemist," Rosslyn, Park Crescent, Harrow Weald.

A.A.A.A.—M.P.S. (24); thoroughly experienced; accustomed to high-class business; capable Pharmacist; good Counterman. "Chemist," 65 Haven Lane, Ealing, W.5.

A.A.A.A.—QUALIFIED (28) Scot desires position as Manager or Assistant, London; experienced Manager and Buyer; available immediately. McElroy, 2A Stonor Road, W.14. Telephone: Fulham 1422.

A.A.A.—ASSISTANT; experienced in all branches; capable and reliable; excellent Dispenser, Window-dresser and Counterman; finish relief work September 30. P. S., 60 Penard Road, Shepherd's Bush.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.

Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras, Bromide Papers, Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.

S. E. HACKETT, 23 July Road, Liverpool

QUALIFIED; locum or emergency; competent, active, elderly; terms moderate. Blunsom, c/o Mr. Kaye, Chemist, Market, Deeping, Lincs.

QUALIFIED Manager (25); all-round experience in busy shops; keen Window-dresser; energetic, trustworthy. M. M. D., 55 Rectory Road, N.16.

QUALIFIED (35), with personality; good appearance; excellent references; proved business builder; good window-dresser; all branches, including Prescribing, Photographic, Optics; West End experience. W., 128 Cavendish Road, S.W.12.

QUALIFIED Woman Pharmacist with wide hospital experience (L.C.C. and voluntary) seeks post with Doctor or Hospital; free now. 507/30, Office of this Paper.

QUALIFIED (35), single, desires permanency; South or West England preferred; excellent references. 509/31, Office of this Paper.

QUALIFIED (35), as Locum Manager or Assistant. Chemist, Wilberforce Hotel, Bletchley Road, Bletchley.

QUALIFIED (52) desires post, not London; tall; disengaged; salary £3 10s. week. Statim, 510/26, Office of this Paper.

QUALIFIED (24); conscientious; manner open and pleasing; experienced all branches; Assistant or Manager of small branch; free soon. 510/25, Office of this Paper.

QUALIFIED (24); accustomed to first-class Dispensing and Counter; desires permanency in West End; free fortnight from engagement. 508/40, Office of this Paper.

QUALIFIED (25) requires change; keen, capable; good Window-dresser, Counter, Prescriber, Salesman; excellent references; Midlands preferred, not essential; free month from engagement. 508/35, Office of this Paper.

SENIOR, Sole, or Managing Assistant under principal; articulated, well trained, Unqualified; best class Dispensing; long varied experience; Prescribing, Surgical Fitting; excellent record and references; disengaged. J. W. C. N., 511/16, Office of this Paper.

SMART Unqualified Assistant, disengaged, requires post; Dispensing, Photography, Window-dressing and Counter. L. Taylor, 31 Cumberland Street, Cardiff.

TO CO-OPERATIVE EXECUTIVES.—Preferably London area or near, having or contemplating adding in near future Drug Department: a Qualified Chemist with long, varied Managerial and Superintendant experience of a type that would appeal particularly to them, offers his services; undeniable references as to both professional and business abilities; keenest attention to their interests; moderate salary. 511/13, Office of this Paper.

WELL-EDUCATED Young Lady (23) (Matric.), completed 3 years' apprenticeship with Chemist; 3½ years' experience; excellent Dispenser; requires position with Doctor; Typing and Book-keeping; references. 509/36, Office of this Paper.

WILL "WORK BETTER THAN A NIGGER."—Male (32; 69 ins.), Unqualified; good Dispensing, Counter, Photographic; wants position London medium-class trade; 37s. 6d. or offer; will interview, preferably Thursday, without obligation. Irwin, "Lyndale," Canterbury Road, Herne Bay.

YOUNG Lady requires post in Nottingham; good experience; splendid references; free October 27. 509/28, Office of this Paper.

WHOLESALE.

EDUATED Representative, London Matric. and Minor degree; experienced Salesman and Detailist with leading Pharmacists, Doctors, Dentists; expert knowledge Vaccine and Biological Therapy; shortly disengaged. Viator, 32 Myddleton Square, E.C.1.

EXPERIENCED Representative (37); Pharmacist; good connection Chemists, &c.; London and Home Counties; excellent references; salary and expenses; own car. 510/29, Office of this Paper.

REPRESENTATIVE (25), good connection Chemists, Hairdressers and Stores in London and suburbs, seeks situation with well-established house; own car. 508/28, Office of this Paper.

TO SALES DIRECTORS.—Representative, trained to Drug and Allied Trades, with brilliant record and substantial London connection, seeks change in New Year or earlier; has also had several years' administrative experience and could act as Assistant to Director or Sales Manager; financial guarantee if necessary. 509/24, Office of this Paper.

WIDOW seeks Position in factory, used to making of Face Cream; controlling of girl labour; experienced in labelling, wrapping, &c., also machinery; excellent references. M. B., 47 Lowden Road, Herne Hill, S.E.24.

THE ROYAL INSTITUTE OF PUBLIC HEALTH**COURSE IN BACTERIOLOGY**

An Evening Course in Bacteriology, arranged for Pharmacists and Dispensers, will begin on Oct. 10th, and will be held twice weekly.—Examination on completion of course optional.

Further particulars can be obtained from the Secretary, 23, Queen Square (and Guilford Street), W.C.1

Telephone: Terminus 4788-6206

FOR SALE.

NATIONAL Cash Register; only used two years; will sell cheap. Write R. Hann, 16 Dorville Road, Hammersmith, W.6.

MISCELLANEOUS.

A "BEST Fitted and Equipped" Pharmacy pulls trade; new and second-hand fittings and showcases of all kinds and sizes. Write enquiries to or call at PHILIP JOSEPHS & SONS, LTD., Shopfitters, 90/92 St. John Street, London, E.C.1.

CHEMISTS' FITTINGS.—We hold an immense stock of Drug Fittings, Dispensing Screens, Glass Fronted Counters, Perfumery Cases, Nests of Drawers, Wall Cases, Silent Salesmen, Upright and Flat Counter Cases, Plate-Glass Counters, Cash Tills, Display Stands and Glass Shelves, &c., ready for immediate delivery at competitive prices. Write or call for List. F. MAUND & E. BERG (SHOWCASES), LTD., 175/9 and 336 Old Street, London, E.C.1.

CHEMISTS' SHOWCASES AND SHOP FITTINGS.—Removed from large Retail Shop in City, including Wall Showcase with Mirror Backs and plate-glass shelves, all lengths 4 ft. to 12 ft. Exhibition all plate-glass Island Showcases. Magnificent all-glass Showcase, 6 ft. 6 in. long, with bow-front. Fitted plate-glass Shelves—also electric fittings. Six glass Counters. Three National Cash Registers. Gledhill Cash Tills from 16s. Wonderful bargains for quick sale. WITHEY GROVE STORES, LTD., 125 The Headrow, Leeds. Note—Park Row Corner. Tel. 25266.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmaceutical Books, including B.P., B.P.C., P.J.F., Optical, Veterinary, and C. & D. Books.

SHOPIFITTINGS and Fixtures. King's can equip a Pharmacy with a complete range of modern fixtures in oak or mahogany from £75; we would welcome a visit to our showrooms; now ready, new catalogue No. C.D. 1013, post free on application. J. C. KING, LTD., 42-60 Goswell Road, London, E.C.1.

600**THREE GENUINE BARGAINS
FOR PROMPT CLEARANCE.**

TABLET-MAKING MACHINE by Thompson & Capper; with dies for ½ in. to ¾ in. diameter tablets, and adjustment for thickness; fitted with fast and loose pulleys, 16 in. diameter by 4½ in. face; very little used.

SUGAR-GRINDING MILL, with steel grinding discs 19 in. diameter; with worm feed from hopper 19 in. by 17 in.; equal to new.

HORIZONTAL COPPER MIXER by Brierley, Collier & Hartley; with bronze blades and hand-tilting adjustment; mounted on cast-iron stand 2 ft. 6 in. high; fitted for hand or power.

VERY ATTRACTIVE PRICES QUOTED.

GEORGE COHEN, SONS & CO., LTD.,

Stanningley Works,
STANNINGLEY, LEEDS.

EXCHANGE COLUMN.**WANTED.**

SIX 30-gallon Tested Horizontal Oxygen Cylinders. Full particulars and price to Wands, Ltd., The Leicester Chemists, Leicester.

THE VETERINARY SUPPLEMENT

OF

The Chemist and Druggist

will be distributed this year with the issue of

OCTOBER 7

This Supplement has been so successful in restoring new and neglected business to Home and Overseas chemists that it calls for the special attention of all manufacturers of Veterinary Preparations.

When anything is required for the health or hygiene of horses, cattle, sheep, pigs, dogs, cats, fowls, or domestic pets, the chemist is immediately looked to for supplies.

HAVE YOU THE CO-OPERATION OF CHEMISTS?

If not, you are restricting your business and losing sales among huntsmen, gamekeepers, racehorse owners and trainers, shepherds, farmers, poultry-keepers and others.

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Telegrams: "Chemicus, Estrand, London."

BRANCH OFFICES:

19 Waterloo Street
GLASGOW

49 County Buildings, Cannon Street
MANCHESTER

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